



DC input side



AC output side



User's Manual



Video



IEC62368-1 EN62368-1 (for 112/124/148 TB type only)  
Please refer to page3 for more details.

TPTC004 AS/NZS 62368.1

## Features

- True sine wave output (THD<3%)
- High surge power up to 6400W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.7W at standby saving mode
- -25°C~+70°C wide operating temperature
- Power ON-OFF remote control
- Front panel indicator for operation status
- Protections :  
Input : Reverse polarity / DC. low alarm / DC low shutdown / Over voltage  
Output : Short circuit / Overload / Over temp.
- Battery over discharge protection (low voltage disconnect)
- Suitable for lead-acid or li-ion batteries
- Remote controller  
(IRC1, IRC2, IRC3 accessory sold separately, please refer to: <https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1> )
- Support RS-232 communication(Communication cable order No.: RJ11-RS232, sold separately)
- Carry handle accessory available(Order NO.: Carry handle, sold separately)
- Conformal coating
- 3 years warranty

## Applications

- Home and office appliance
- Power tools
- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system

## GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## Description

NTS-3200 is a 3200W highly reliable off-grid true sine wave DC-AC power inverter. Its key features include: digital design with MCU control, streamlined control circuitry that quickly responds to environmental changes and improves reliability, high quality fan with low acoustic noise, 6400W peak power, adjustable AC output voltage and frequency, -25~+70°C wide operating temperature range, complete protection features, and etc. Combined with batteries, the NTS-3200 is suitable for use in residential, commercial, marine, automobile, mine, construction site, and remote areas with no access to utility power, and the output can be used to power fans, TV, radio, phone charger, PC/laptop, lighting, induction stove, air conditioner, electromechanical tool, communication equipment, power distribution cabinet, outdoor camping equipment, marine AC power, factory equipment, and etc.

## Model Encoding

NTS - 3200 - 1 12 US

AC output socket (Type US, EU, CN, AU, UK, UN, TB outlet)

DC input voltage (12: 12Vdc, 24: 24Vdc, 48: 48Vdc)

AC output voltage (1: 100/110/115/120Vac, 2:200/220/230/240Vac)

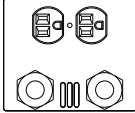
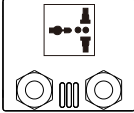
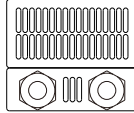
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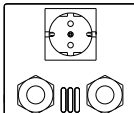
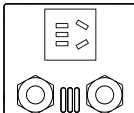
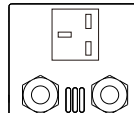
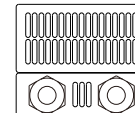
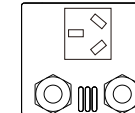
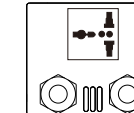
Series name

## SPECIFICATION

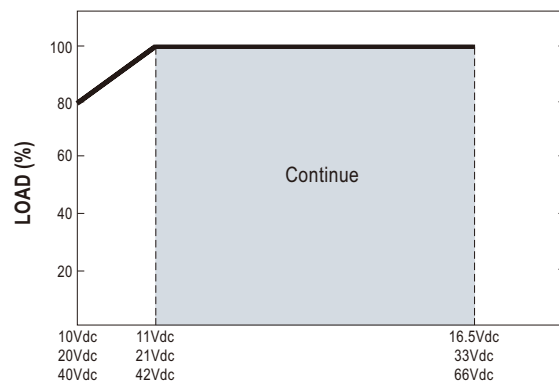
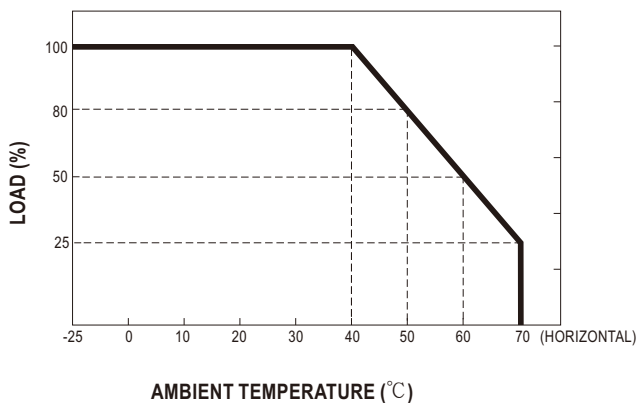
| MODEL NO.                |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NTS-3200-112                                                                                                                                                   | NTS-3200-124          | NTS-3200-148                                                    | NTS-3200-212                                   | NTS-3200-224                            | NTS-3200-248 |         |
|--------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------|------------------------------------------------|-----------------------------------------|--------------|---------|
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | = US, UN, TB                                                                                                                                                   |                       |                                                                 | = EU, CN, AU, UK, UN, TB                       |                                         |              |         |
| AC OUTPUT                | RATED POWER(Continuous)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3000W                                                                                                                                                          |                       |                                                                 | 3200W                                          |                                         |              |         |
|                          | OVER RATED POWER(3 Min.)                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3500W                                                                                                                                                          |                       |                                                                 | 3680W                                          |                                         |              |         |
|                          | PEAK POWER(10 Sec.)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4500W                                                                                                                                                          |                       |                                                                 | 4800W                                          |                                         |              |         |
|                          | SURGE POWER(30 Cycles)                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6000W                                                                                                                                                          |                       |                                                                 | 6400W                                          |                                         |              |         |
|                          | AC VOLTAGE                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Factory setting set at 110VAC                                                                                                                                  |                       |                                                                 | Factory setting set at 230VAC                  |                                         |              |         |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100 / 110 / 115 / 120Vac selectable by DIP S.W                                                                                                                 |                       |                                                                 | 200 / 220 / 230 / 240Vac selectable by DIP S.W |                                         |              |         |
|                          | FREQUENCY                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Factory setting set at 60±0.1Hz                                                                                                                                |                       |                                                                 | Factory setting set at 50±0.1Hz                |                                         |              |         |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50/60Hz selectable by DIP S.W                                                                                                                                  |                       |                                                                 | 50/60Hz selectable by DIP S.W                  |                                         |              |         |
|                          | WAVEFORM                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Note.1 True sine wave (THD<3%)                                                                                                                                 |                       |                                                                 |                                                |                                         |              |         |
| AC REGULATION            |                                         | ±3.0% at rated output voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                |                       |                                                                 |                                                |                                         |              |         |
| FRONT PANEL LED          |                                         | Please see page 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                       |                                                                 |                                                |                                         |              |         |
| DC INPUT                 | DC VOLTAGE                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12Vdc                                                                                                                                                          | 24Vdc                 | 48Vdc                                                           | 12Vdc                                          | 24Vdc                                   | 48Vdc        |         |
|                          | VOLTAGE RANGE (Typ.)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 ~ 16.5Vdc                                                                                                                                                   | 20 ~ 33Vdc            | 40 ~ 66Vdc                                                      | 10 ~ 16.5Vdc                                   | 20 ~ 33Vdc                              | 40 ~ 66Vdc   |         |
|                          | DC CURRENT (Typ.)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 300A                                                                                                                                                           | 150A                  | 75A                                                             | 320A                                           | 160A                                    | 80A          |         |
|                          | NO LOAD DISSIPATION (SAVING MODE)(Typ.) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Default disable, auto detect AC output load≤10W will be changed to saving mode                                                                                 |                       |                                                                 |                                                |                                         |              |         |
|                          | (Typ.)                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Note.2 1.7W                                                                                                                                                    |                       |                                                                 |                                                |                                         |              |         |
|                          | OFF MODE CURRENT DRAW                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≤2mA                                                                                                                                                           |                       |                                                                 |                                                |                                         |              |         |
|                          | EFFICIENCY (Typ.)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Note.1 89%                                                                                                                                                     | 90%                   | 91%                                                             | 90%                                            | 92%                                     | 93%          |         |
| BATTERY TYPES            |                                         | Lead Acid or li-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                |                       |                                                                 |                                                |                                         |              |         |
| PROTECTION               | DC INPUT                                | FUSE (INTERNAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                | 40A*12                | 40A*6                                                           | 25A*6                                          | 40A*12                                  | 40A*6        | 25A*6   |
|                          |                                         | LOW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ALARM                                                                                                                                                          | 11±0.3Vdc             | 22±0.5Vdc                                                       | 44±1Vdc                                        | 11±0.3Vdc                               | 22±0.5Vdc    | 44±1Vdc |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SHUTDOWN                                                                                                                                                       | 10±0.3Vdc             | 20±0.5Vdc                                                       | 40±1Vdc                                        | 10±0.3Vdc                               | 20±0.5Vdc    | 40±1Vdc |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESTART                                                                                                                                                        | 12.5±0.3Vdc           | 25±0.5Vdc                                                       | 50±1Vdc                                        | 12.5±0.3Vdc                             | 25±0.5Vdc    | 50±1Vdc |
|                          |                                         | HIGH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ALARM                                                                                                                                                          | 15.5±0.3Vdc           | 31±0.5Vdc                                                       | 62±1Vdc                                        | 15.5±0.3Vdc                             | 31±0.5Vdc    | 62±1Vdc |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SHUTDOWN                                                                                                                                                       | 16.5±0.3Vdc           | 33±0.5Vdc                                                       | 66±1Vdc                                        | 16.5±0.3Vdc                             | 33±0.5Vdc    | 66±1Vdc |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESTART                                                                                                                                                        | 15±0.3Vdc             | 30±0.5Vdc                                                       | 60±1Vdc                                        | 15±0.3Vdc                               | 30±0.5Vdc    | 60±1Vdc |
|                          |                                         | BAT. POLARITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                | By internal fuse open |                                                                 |                                                |                                         |              |         |
|                          |                                         | AC OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OVER TEMPERATURE                                                                                                                                               |                       | Protection type : Shut down o/p voltage, re-power on to recover |                                                |                                         |              |         |
|                          | OUTPUT SHORT                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Protection type : Shut down o/p voltage, re-power on to recover                                                                                                |                       |                                                                 |                                                |                                         |              |         |
|                          | OVER LOAD (Typ.)                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.                                                                                                     |                       |                                                                 |                                                |                                         |              |         |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Protection type : Shut down o/p voltage, re-power on to recover                                                                                                |                       |                                                                 |                                                |                                         |              |         |
|                          | CIRCUIT BREAKER                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30A (Only for "TB" type)                                                                                                                                       |                       |                                                                 |                                                | None                                    |              |         |
| TB TYPE                  |                                         | UL458 (Only for "TB" type AC socket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |                       |                                                                 | None                                           |                                         |              |         |
| FUNCTION                 | REMOTE CONTROL                          | CONNECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open : Normal work ; Short : Remote off                                            |                       |                                                                 |                                                |                                         |              |         |
|                          |                                         | ACCESSORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Remote controller sold separately, Order No.: IRC1,IRC2,IRC3                                                                                                   |                       |                                                                 |                                                |                                         |              |         |
|                          | RS-232 COMMUNICATION                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)                                                                                         |                       |                                                                 |                                                |                                         |              |         |
| ENVIRONMENT              | WORKING TEMP.                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -25 ~ +70℃ (Refer to "Derating curve")                                                                                                                         |                       |                                                                 |                                                |                                         |              |         |
|                          | WORKING HUMIDITY                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20% ~ 90% RH non-condensing                                                                                                                                    |                       |                                                                 |                                                |                                         |              |         |
|                          | STORAGE TEMP., HUMIDITY                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH non-condensing                                                                                                          |                       |                                                                 |                                                |                                         |              |         |
|                          | VIBRATION                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes                                                                                                   |                       |                                                                 |                                                |                                         |              |         |
| SAFETY & EMC<br>(Note.5) | SAFETY STANDARDS                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CB IEC62368-1,Dekra Seal BS EN/EN62368-1,UL458, E13,EAC TP TC 004,AS/NZS 62368.1 approved (Please refer to next page"AC output socket" table for more details) |                       |                                                                 |                                                |                                         |              |         |
|                          | WITHSTAND VOLTAGE                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DC I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC                                                                                                                    |                       |                                                                 |                                                |                                         |              |         |
|                          | EMC EMISSION                            | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Standard                                                                                                                                                       |                       |                                                                 |                                                | Test Level / Note                       |              |         |
|                          |                                         | Radiated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC for 112,124,148 only(expect for Type-UN)                                                                                                                   |                       |                                                                 |                                                | Class A                                 |              |         |
|                          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BS EN/EN55032(CISPR32) for 212,224,248 only(expect for Type-UN)                                                                                                |                       |                                                                 |                                                | Class A                                 |              |         |
|                          |                                         | Harmonic Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BS EN/EN61000-3-2                                                                                                                                              |                       |                                                                 |                                                | -----                                   |              |         |
|                          | Voltage Flicker                         | BS EN/EN61000-3-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                       |                                                                 | -----                                          |                                         |              |         |
|                          | EMC IMMUNITY                            | BS EN/EN55024, BS EN/EN55035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                |                       |                                                                 |                                                |                                         |              |         |
|                          |                                         | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Standard                                                                                                                                                       |                       |                                                                 |                                                | Test Level / Note                       |              |         |
|                          |                                         | ESD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BS EN/EN61000-4-2                                                                                                                                              |                       |                                                                 |                                                | Level 3, 8KV air ; Level 2, 4KV contact |              |         |
| Radiated                 |                                         | BS EN/EN61000-4-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                       |                                                                 | Level 2, 3V/m                                  |                                         |              |         |
| Magnetic Field           |                                         | BS EN/EN61000-4-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                       |                                                                 | Level 1, 1A/m                                  |                                         |              |         |
| OTHERS                   | MTBF                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 336.9K hrs min. Telcordia TR/SR-332 (Bellcore) ; 30.5K hrs min. MIL-HDBK-217F (25℃)                                                                            |                       |                                                                 |                                                |                                         |              |         |
|                          | DIMENSION                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 420*270*98mm (L*W*H)                                                                                                                                           |                       |                                                                 |                                                |                                         |              |         |
|                          | PACKING                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.6Kg; 1pcs/ 10.4Kg/ 1.39CUFT                                                                                                                                  |                       |                                                                 |                                                |                                         |              |         |
| NOTE                     |                                         | 1.Efficiency, AC regulation and THD are tested by 2400W load, linear load at 12.5Vdc/25Vdc/50Vdc input voltage.<br>2.No load dissipation at non-saving mode(Typ.): 112/124/148 for 25W, 212/224/248 for 55W.<br>3.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting.<br>4.Internal pre-start circuit, the setup time is 8s.<br>5.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                |                       |                                                                 |                                                |                                         |              |         |

### ■ AC Output Socket

| MODEL NO.   | NTS-3200-112 <input type="checkbox"/>                                                   | NTS-3200-124 <input type="checkbox"/>                                             | NTS-3200-148 <input type="checkbox"/>                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Socket type |        |  |                                                                                            |
|             | TYPE-US                                                                                 | TYPE-UN                                                                           | TYPE-TB                                                                                                                                                                       |
|             | In Stock                                                                                | In Stock                                                                          | In Stock                                                                                                                                                                      |
| Country     | USA                                                                                     | UNIVERSAL                                                                         | UNIVERSAL                                                                                                                                                                     |
| Certificate | CB  FC | None                                                                              | CB   FC |

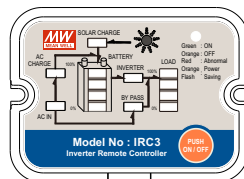
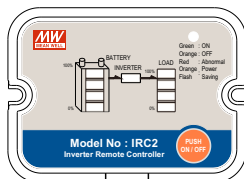
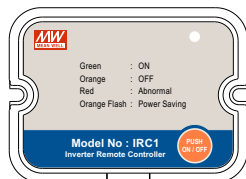
| MODEL NO.   | NTS-3200-212 <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                  |                                                                                    | NTS-3200-224 <input type="checkbox"/>                                              |                                                                                    | NTS-3200-248 <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Socket type |                                                                                                                                                                                                                                                                      |  |  |  |                                                                                                                                                                                                                                                                                                                                                              |       |
|             | TYPE-EU                                                                                                                                                                                                                                                                                                                                                | TYPE-CN                                                                            | TYPE-UK                                                                            | TYPE-TB                                                                            | TYPE-AU                                                                                                                                                                                                                                                                                                                                                                                                                                          | TYPE-UN                                                                                   |
|             | In Stock                                                                                                                                                                                                                                                                                                                                               | In Stock                                                                           | By request                                                                         | In Stock                                                                           | By request                                                                                                                                                                                                                                                                                                                                                                                                                                       | In Stock                                                                                  |
| Country     | EUROPE                                                                                                                                                                                                                                                                                                                                                 | CHINA                                                                              | U.K                                                                                | UNIVERSAL                                                                          | AUSTRALIA                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNIVERSAL                                                                                 |
| Certificate | CB   EAC   |                                                                                    |                                                                                    |                                                                                    | CB      |  EAC |

### ■ DERATING CURVE



### ■ IRC1/2/3 Remote Controller (Accessory sold separately)

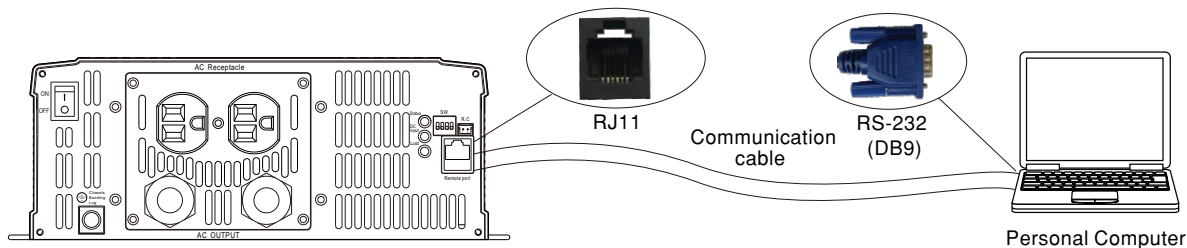
- IRC1/IRC2/IRC3 is the monitoring and control unit.
  - IRC1/IRC2/IRC3 can decode the RS-232 signals sent by the inverter series and display through digital meters.
- Note: Part of the control signals will not function properly due to different compliance of each model.



※ Please refer to for more detail: <https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1>

### ■ Support RS-232 Communication

- The internal data of single NTS-3200 can read through RS-232.



※ Please refer to for more detail: <http://www.meanwell.com/manual.html>

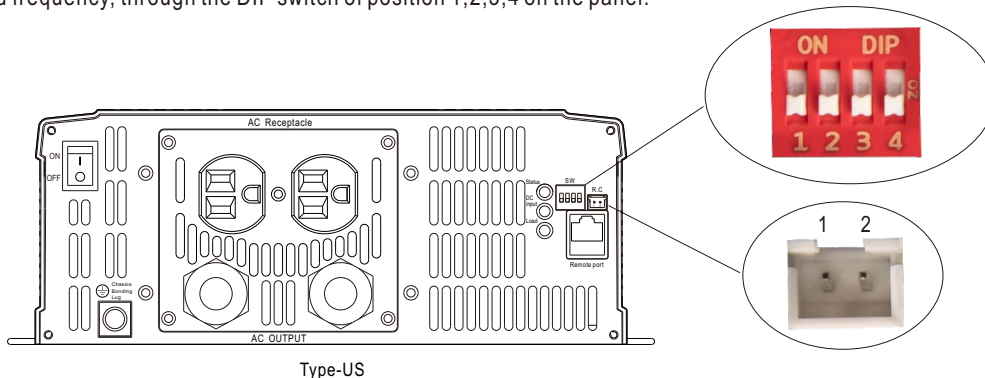
※ RJ11-RS232 Communication cable should be ordered separately, Order No.:RJ11-RS232

### ■ Remote ON-OFF Control (Built-in)

| Remote ON-OFF | AC Output Status   |
|---------------|--------------------|
| Open          | power inverter ON  |
| Short         | power inverter OFF |

### ■ AC Output Voltage、Frequency、Power saving mode selectable by DIP SW

Output voltage and frequency setting factory settings are either 110Vac/60Hz or 230Vac/50Hz, users are able to adjust the voltage and frequency, through the DIP switch of position 1,2,3,4 on the panel.



Type-US

AC Output Voltage、Frequency、Power saving mode selectable by DIP SW

| SW1 | SW2                    | SW3       | SW4                  |
|-----|------------------------|-----------|----------------------|
| OFF | OFF : 100Vac or 200Vac | ON : 50Hz | ON : Saving mode     |
| OFF | ON : 110Vac or 220Vac  |           |                      |
| ON  | OFF : 115Vac or 230Vac | OFF: 60Hz | OFF: Non-Saving mode |
| ON  | ON : 120Vac or 240Vac  |           |                      |

### ■ LED STATUS

Normal work:

|        | Green                                                                                                                                                                                           | Orange                                                                                                                                                                                        | Red                                                                                                                      |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Status |  System check<br> Inverter OK |  Remote off<br> Saving mode |  Abnormal Status<br>(See below table) |

|          | Green                                                                                                                                                                                                                                                                                      | Orange                                                                                                                                                                                                                                                                                   | Red                                                                                                                                                                                                                                                                                                                    |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC Input |  12.5~15.5Vdc<br> 25~31Vdc<br> 50~62Vdc |  11~12.5Vdc<br> 22~25Vdc<br> 44~50Vdc |  <11Vdc or >15.5Vdc<br> <22Vdc or >31Vdc<br> <44Vdc or >62Vdc |

|      | Green                                                                                       | Orange                                                                                        | Red                                                                                           |
|------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Load |  <40% load |  40~80% load |  >80% load |

Abnormal status :

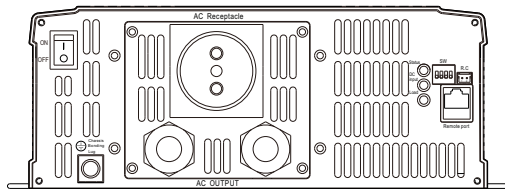
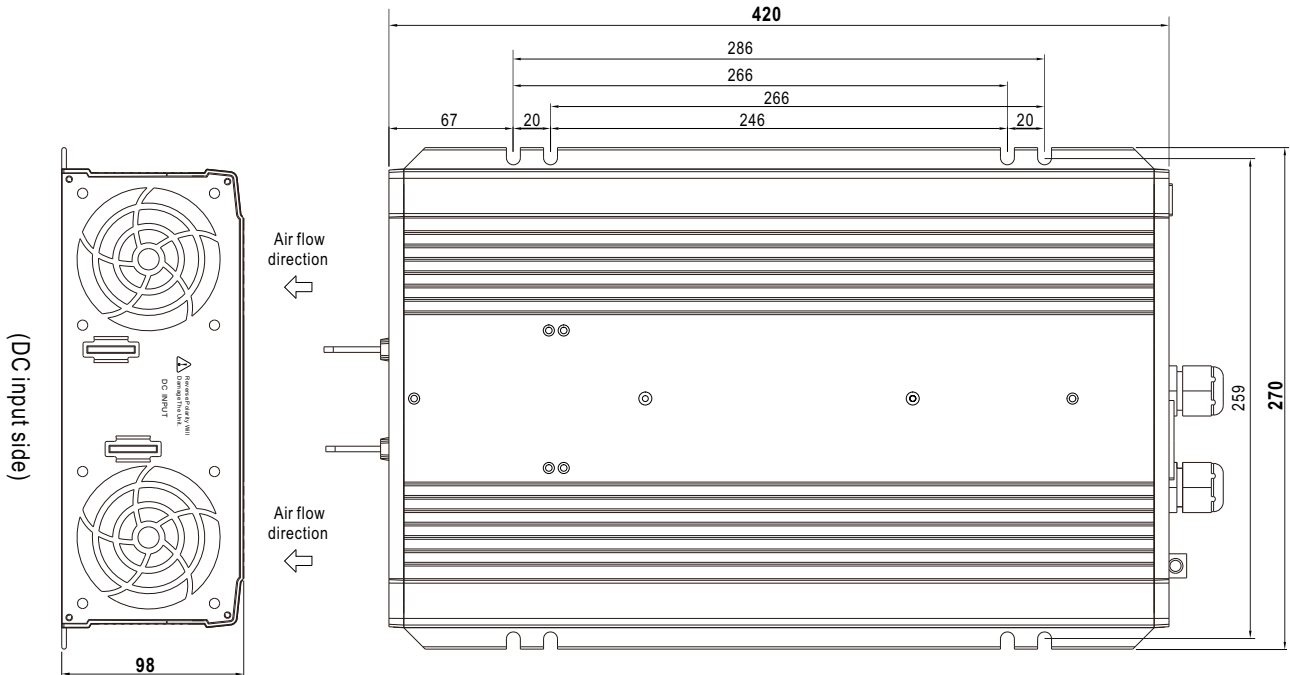
| LED Indicator                                                                                                                                                                                                                                                                          | Abnormal Indication                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Status <br>DC Input <br>Load  | Output overload or AC output short circuit |
| Status <br>DC Input <br>Load  | Abnormal DC voltage                        |
| Status <br>DC Input <br>Load  | Over temperature or Fan lock               |
| Status <br>DC Input <br>Load  | Inverter fail                              |

-  Light
-  Light off
-  Flash

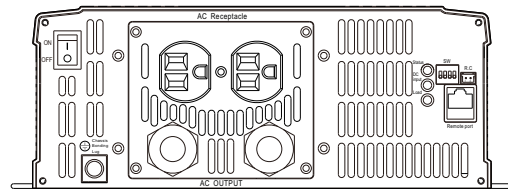
## MECHANICAL SPECIFICATION

(Unit: mm , tolerance  $\pm 1$ mm)

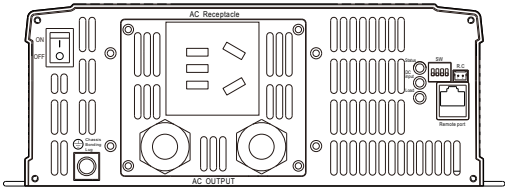
Case No. 289A



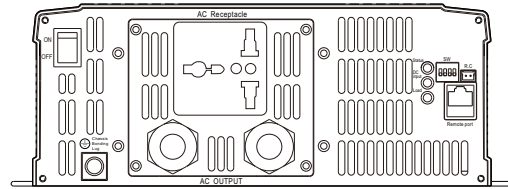
Type-EU



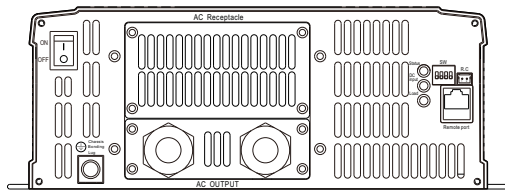
Type-US



Type-CN



Type-UN



Type-TB

(AC output side)

R.C Connector : JST B-XH or equivalent

| Remote Control            | Mating Housing        | Terminal                   |
|---------------------------|-----------------------|----------------------------|
| Pin 1,2 Open: Normal work | JST XHP or equivalent | JST SXH-001T or equivalent |
| Pin 1,2 Short: Remote off |                       |                            |

Remote port connector (RJ11)

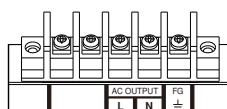


Remote port

| Assignment  | Rx | GND | Tx |
|-------------|----|-----|----|
| Remote port | 2  | 3   | 4  |
| DB9         | 3  | 5   | 2  |

Directions for use TB socket

| Socket type | Withstand Current | Note                                                                                                                                                |
|-------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| US          | 15A               | When the load current is over withstand current, must use output terminal connection which can be found inside the AC output panel of the inverter. |
| EU          | 16A               |                                                                                                                                                     |
| CN          | 10A               |                                                                                                                                                     |
| UN          | 16A               |                                                                                                                                                     |
| UK          | 13A               |                                                                                                                                                     |
| AU          | 10A               |                                                                                                                                                     |

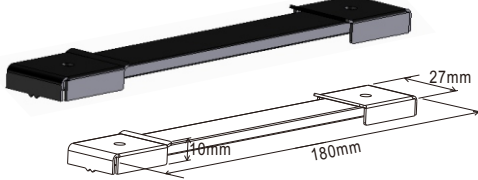


### ■ Accessory List

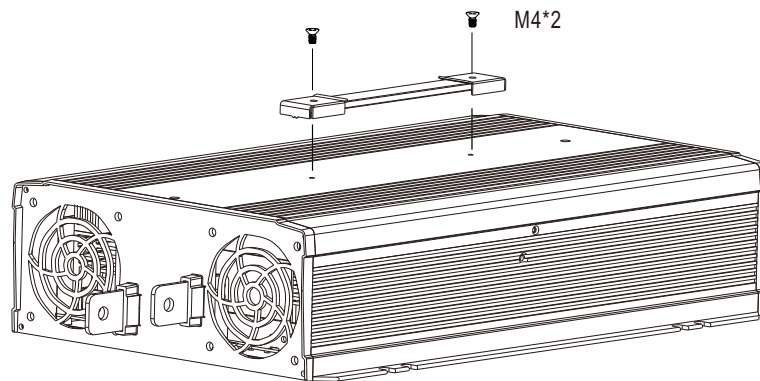
※ Communication cable (Optional accessory, Power inverter and Communication cable should ordered separately)

| MW's Order No. | Item                                                                              | Quantity |
|----------------|-----------------------------------------------------------------------------------|----------|
| RJ11-RS232     |  | 1        |

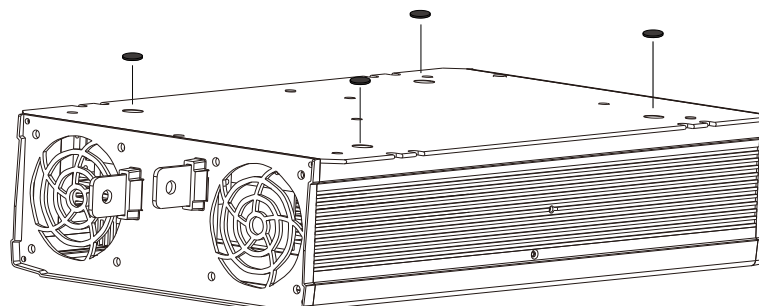
※ Carryl handle (Optional accessory, Power inverter and Pull handle should ordered separately)

| MW's Order No. | Item |                                                                                                  | Quantity |
|----------------|------|--------------------------------------------------------------------------------------------------|----------|
| Carry Handle   | ①    | Handle<br>     | 1        |
|                | ②    | Foot pad<br> | 4        |
|                | ③    | Screw<br>     | 2        |

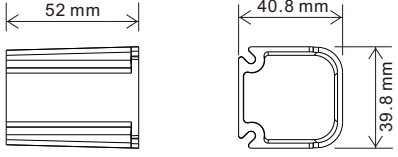
① Handle

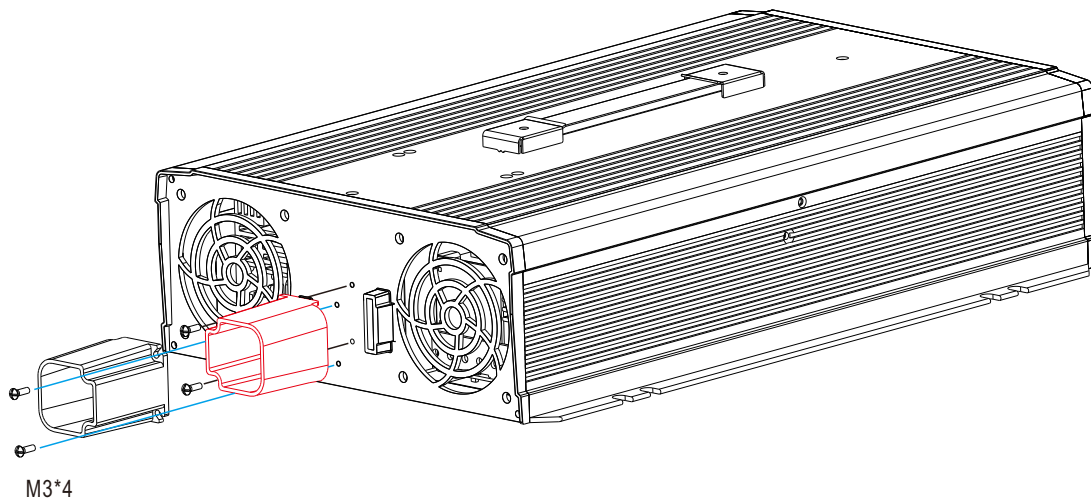


② Foot pad



※ Terminal protector mating along with NTS-3200 (Standard accessory)

| Item |                                                                                   |                                                                                    | Quantity |
|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|
| ①    |  |  | 1        |
| ②    |  |                                                                                    | 1        |
| ③    |  |                                                                                    | 4        |



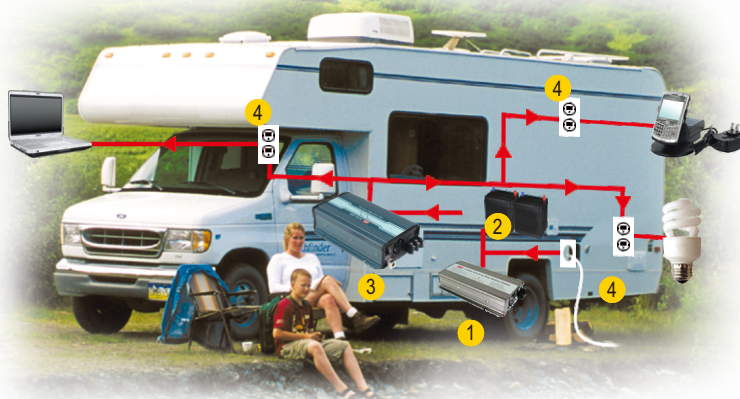
## TYPICAL APPLICATION



- 1 Battery Bank
- 2 Off-Grid DC/AC Solar Inverter (NTS series)
- 3 AC Outlet



- 1 Utility Input (Shore)
- 2 AC/DC Battery Charger (PB/NPB/NPP series)
- 3 Battery Bank
- 4 Off-Grid AC/DC Power Inverter (NTS series)
- 5 AC Outlet



- 1 AC/DC Battery Charger (PB/NPB/NPP series)
- 2 Battery Bank
- 3 Off-Grid DC/AC Inverter (NTS series)
- 4 AC Outlet

## INSTALLATION MANUAL

Please refer to : <http://www.meanwell.com/manual.html>