



DC input side



User's Manual



Video



AC output side



IEC62368-1 BS EN/EN62368-1

TPTC004

AS/NZS 62368.1

Please refer to page3 for more details.

## Features

- Compact size and light weight
- True sine wave output (THD<3%)
- High surge power up to 900W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.5W max. 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
- Carry handle accessory available(Order NO.: DS-Carry handle, sold separately)
- Conformal coating
- 3 years warranty

## Description

NTS-450 is a 450W 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, 900W peak power, adjustable AC output voltage and frequency, -25~+70°C wide operating temperature range, complete protections features, and etc. combined with batteries, the NTS-450 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, electromechanical tool, communication equipment, power distribution cabinet, outdoor camping equipment, marine AC power, factory equipment, and etc.

## Model Encoding

NTS - 450 - 1 12 US

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

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

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

Rated wattage

Series name



## Applications

- Mobile device
- Home and office appliance
- Power tools
- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system
- Wireless network
- Telecom or datacom system

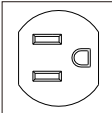
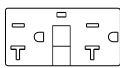
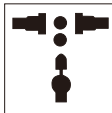
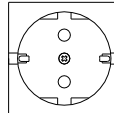
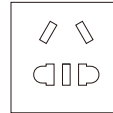
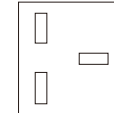
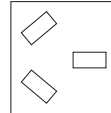
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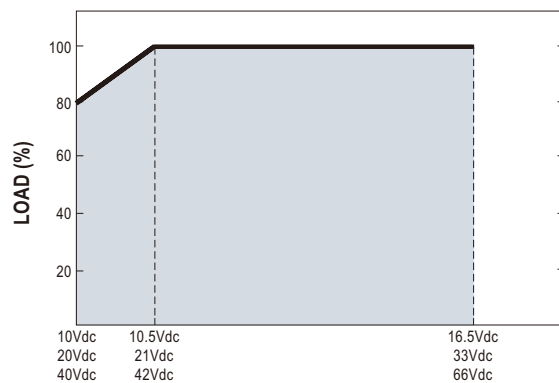
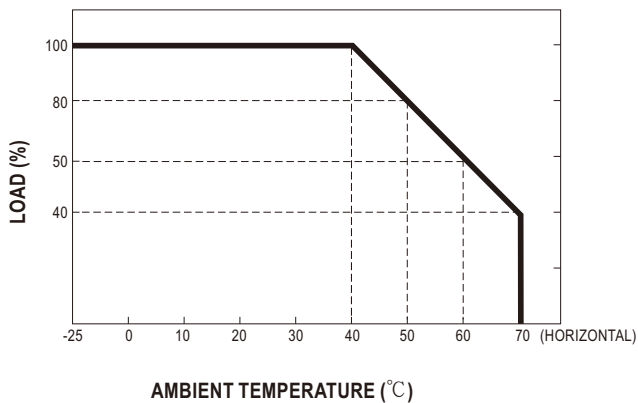
# SPECIFICATION

| MODEL NO.                |                           | NTS-450-112□                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                | NTS-450-124□          |                                                                 | NTS-450-148□ |            | NTS-450-212□           |                                                | NTS-450-224□   |                                         | NTS-450-248□ |            |         |  |
|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------|--------------|------------|------------------------|------------------------------------------------|----------------|-----------------------------------------|--------------|------------|---------|--|
|                          |                           | □ = US, GFCI, UN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                |                       |                                                                 |              |            | □ = EU, CN, AU, UK, UN |                                                |                |                                         |              |            |         |  |
| AC OUTPUT                | RATED POWER(Continuous)   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 450W                                                                                                                                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | OVER RATED POWER(3 Min.)  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 517.5W                                                                                                                                                                                                         |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | PEAK POWER(10 Sec.)       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 675W                                                                                                                                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | SURGE POWER(30 Cycles)    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 900W                                                                                                                                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | AC VOLTAGE                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default setting set at 110VAC                                                                                                                                                                                  |                       |                                                                 |              |            |                        | Default setting set at 230VAC                  |                |                                         |              |            |         |  |
|                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100 / 110 / 115 / 120Vac selectable by DIP S.W                                                                                                                                                                 |                       |                                                                 |              |            |                        | 200 / 220 / 230 / 240Vac selectable by DIP S.W |                |                                         |              |            |         |  |
|                          | FREQUENCY                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default setting set at 60Hz±0.1Hz                                                                                                                                                                              |                       |                                                                 |              |            |                        | Default setting set at 50Hz±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 input voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| FRONT PANEL LED          |                           | Please refer to page5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| DC INPUT                 | DC VOLTAGE                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12V                                                                                                                                                                                                            |                       | 24V                                                             |              | 48V        |                        | 12V                                            |                | 24V                                     |              | 48V        |         |  |
|                          | VOLTAGE RANGE (Typ.)      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 ~ 16.5Vdc                                                                                                                                                                                                   |                       | 20 ~ 33Vdc                                                      |              | 40 ~ 66Vdc |                        | 10 ~ 16.5Vdc                                   |                | 20 ~ 33Vdc                              |              | 40 ~ 66Vdc |         |  |
|                          | DC CURRENT (Typ.)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50A                                                                                                                                                                                                            |                       | 25A                                                             |              | 14A        |                        | 50A                                            |                | 25A                                     |              | 14A        |         |  |
|                          | NO LOAD DISSPATION (Typ.) | NON-SAVING MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10W                                                                                                                                                                                                            |                       | 10W                                                             |              | 12W        |                        | 10W                                            |                | 10W                                     |              | 12W        |         |  |
|                          |                           | SAVING MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Default disable, ≤1.2W ~ 1.5W by models @ auto detec AC output load ≤10W will be changed to saving mode                                                                                                        |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.2W                                                                                                                                                                                                           |                       | 1.3W                                                            |              | 1.5W       |                        | 1.2W                                           |                | 1.3W                                    |              | 1.5W       |         |  |
|                          | OFF MODE CURRENT DRAW     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤1mA                                                                                                                                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | EFFICIENCY (Typ.)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Note.1 88%                                                                                                                                                                                                     |                       | 91%                                                             |              | 91%        |                        | 90%                                            |                | 93%                                     |              | 93%        |         |  |
| BATTERY TYPES            |                           | Lead Acid or li-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| PROTECTION               | DC INPUT                  | FUSE (Internal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                | 40A*2                 |                                                                 | 40A*1        |            | 10A*2                  |                                                | 40A*2          |                                         | 40A*1        |            | 10A*2   |  |
|                          |                           | 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                                                                                                                                                |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| GFCI PROTECTION          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Design refer to UL458<br>(Only for "GFCI" AC socket , by request)                                                                                                                                              |                       |                                                                 |              |            |                        | None                                           |                |                                         |              |            |         |  |
| FUNCTION                 | REMOTE CONTROL            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Power ON-OFF remote control by front panel dry contact connector (by RELAY); Open : Normal work ; Short , Remote off                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| 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.4) | SAFETY STANDARDS          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CB IEC62368-1, Dekra BS EN/EN62368-1, E13, EAC TP TC 004 approved; Design refer to AS/NZS 62368.1<br>(Please refer to next page"AC output socket" table for more details) ; Design refer to UL458 (By request) |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | 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                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 843.9K hrs min. Telcordia TR/SR-332 (Bellcore) ; 85K hrs min. MIL-HDBK-217F (25℃)                                                                                                                              |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | DIMENSION                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 210*130*55mm (L*W*H)                                                                                                                                                                                           |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
|                          | PACKING                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.3Kg; 8pcs/ 11.4Kg/ 1.74CUFT                                                                                                                                                                                  |                       |                                                                 |              |            |                        |                                                |                |                                         |              |            |         |  |
| NOTE                     |                           | 1.Efficiency, AC regulation and THD are tested by 450W, linear load at 12.5Vdc/25Vdc/50Vdc input voltage.<br>2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting.<br>3.Internal pre-start circuit, the setup time is 8s.<br>4.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="http://www.meanwell.com">http://www.meanwell.com</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-450-112                                                                       | NTS-450-124                                                                       | NTS-450-148                                                                       | NTS-450-212                                                                        | NTS-450-224                                                                         | NTS-450-248                                                                         |                                                                                     |                                                                                     |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Socket type |  |  |  |   |    |  |  |  |
|             | TYPE-US                                                                           | TYPE-GFCI                                                                         | TYPE-UN                                                                           | TYPE-EU                                                                            | TYPE-CN                                                                             | TYPE-UK                                                                             | TYPE-AU                                                                             | TYPE-UN                                                                             |
|             | In Stock                                                                          | By request                                                                        | In Stock                                                                          | In Stock                                                                           | In Stock                                                                            | By request                                                                          | By request                                                                          | In Stock                                                                            |
| Country     | USA                                                                               | USA                                                                               | UNIVERSAL                                                                         | EUROPE                                                                             | CHINA                                                                               | U.K                                                                                 | AUSTRALIA                                                                           | UNIVERSAL                                                                           |
| Certificate |  |  | None                                                                              |  |  |  |                                                                                     |                                                                                     |

## DERATING CURVE

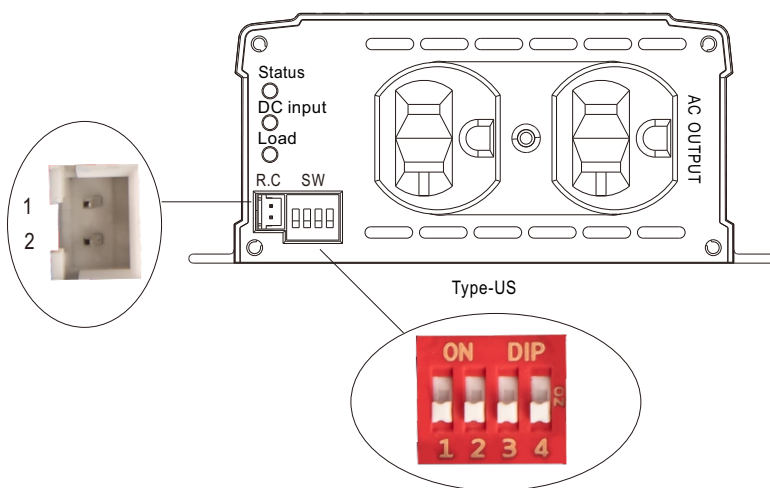


## Remote ON-OFF Control

| 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.



| 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 |  Inverter OK |  Remote off<br> Saving mode |  Abnormal Status<br>(See below table) |

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

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

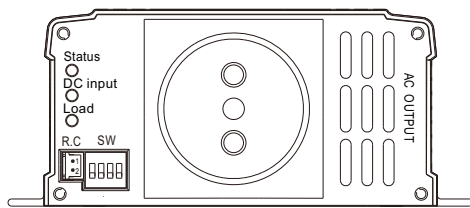
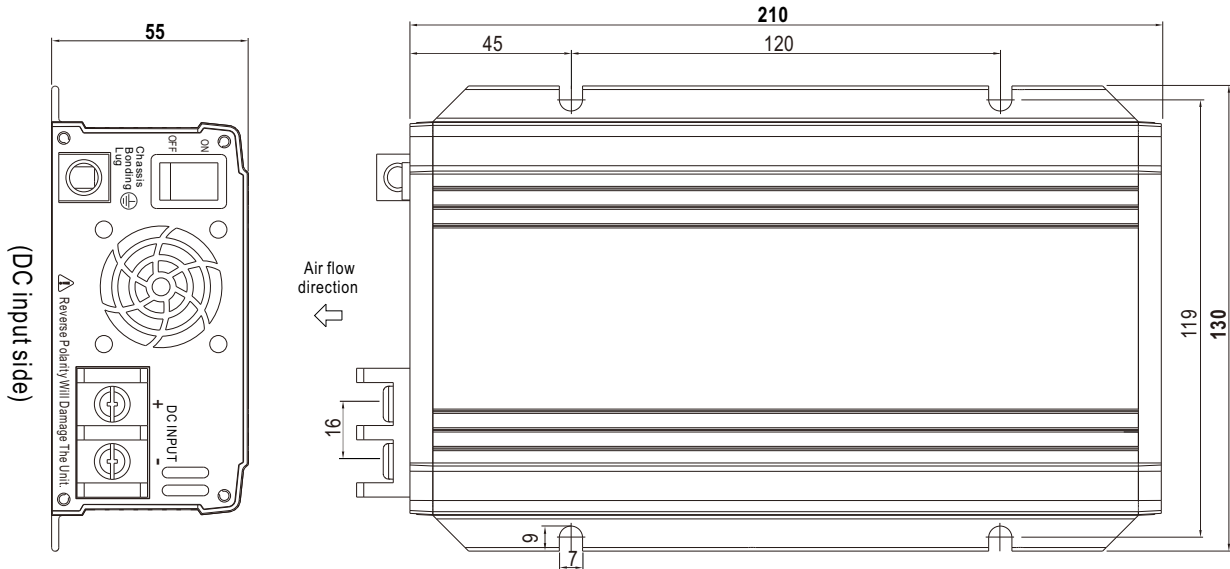
Abnormal status :

| 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                              |

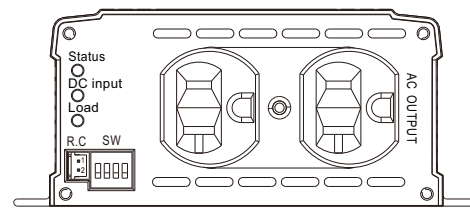
-  Light
-  Light off
-  Flash

MECHANICAL SPECIFICATION

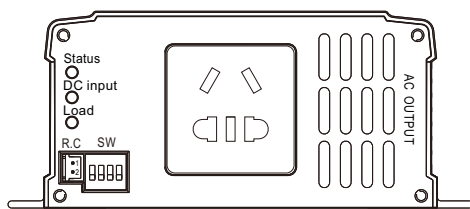
Unit:mm



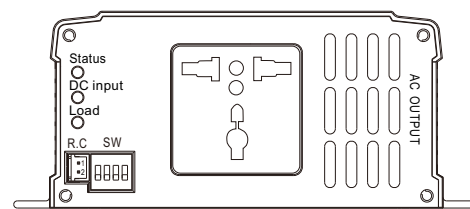
Type-EU



Type-US



Type-CN



Type-UN

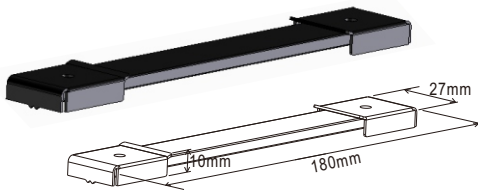
(AC output side)

R.C Connector : JST B-XH or equivalent

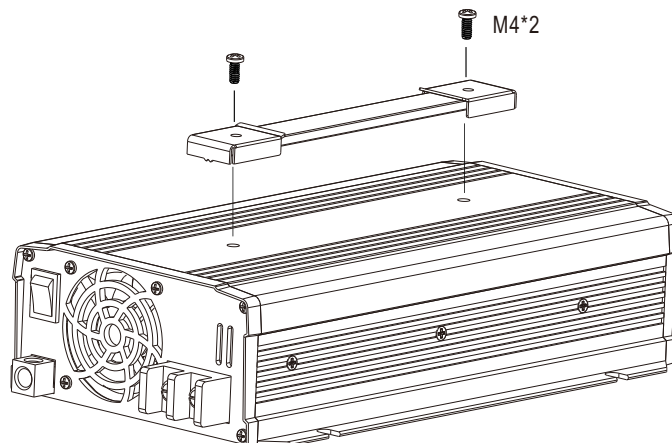
| Remote Control            | Mating Housing           | Terminal                      |
|---------------------------|--------------------------|-------------------------------|
| Pin 1,2 Open: Normal work | JST XHP<br>or equivalent | JST SXH-001T<br>or equivalent |
| Pin 1,2 Short: Remote off |    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

### ■ Accessory List

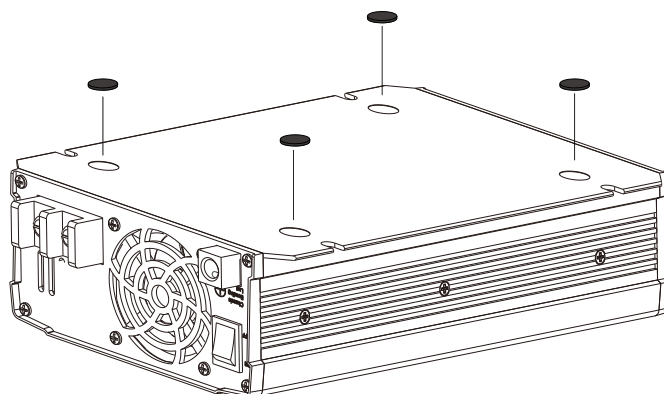
※ Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

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

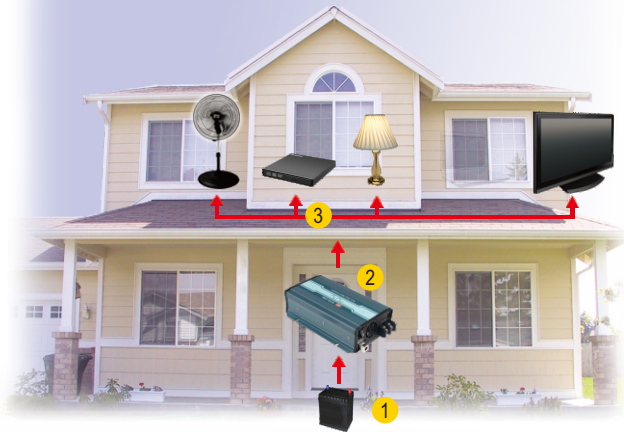
① Handle



② Foot pad



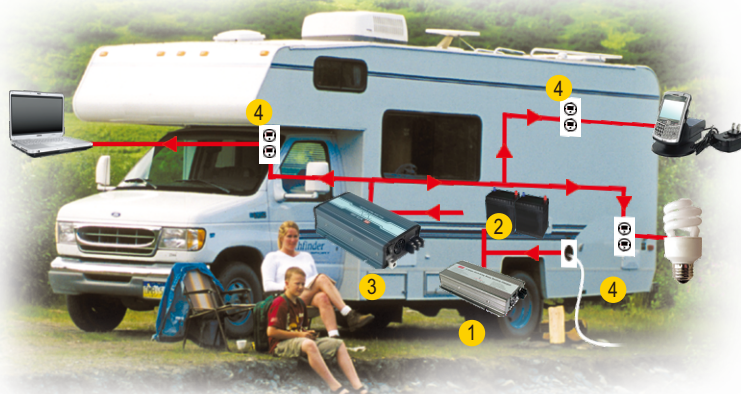
## ■ TYPICAL APPLICATION



- 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 DC/AC 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>