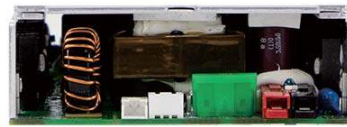




## 250W High Reliable Built-in Type True Sine Wave DC-AC Power Inverter NTS-250P series



(DC input side)



(AC output side)

User's Manual



Video



IEC62368-1

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 500W
- Fanless design, cooling by free air convention
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.5W max. at standby saving mode
- -20°C~+70°C wide operating temperature
- Power ON-OFF remote control
- 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
- Support Tx/Rx for monitoring power inverter status
- Conformal coating
- 3 years warranty

### ■ Applications

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

### ■ GTIN CODE

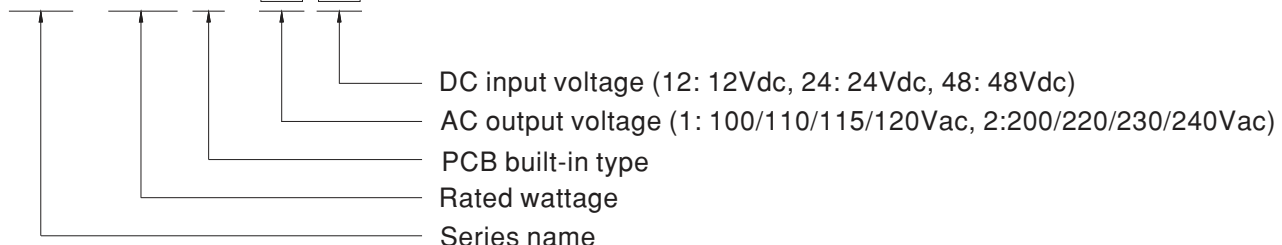
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

### ■ Description

NTS-250P is a 250W highly reliable built-in type 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, compact size, light weight, fanless quiet design, 500W peak power, adjustable AC output voltage and frequency, -20~+70°C wide operating temperature range, built-in remote ON/OFF control, low no-load power consumption (energy saving mode < 1.5W max.), complete protection features, and etc. Combined with batteries, the NTS-250P is suitable for use in residential, commercial, marine, automobile, 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, outdoor camping equipment, marine AC power, and etc.

### ■ Model Encoding

NTS - 250 P - 1 12





## 250W High Reliable Built-in Type True Sine Wave DC-AC Power Inverter NTS-250P series

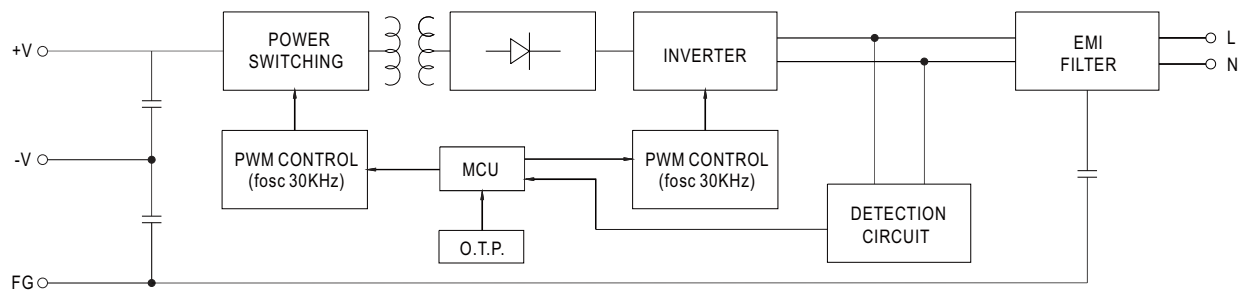
### SPECIFICATION

| MODEL NO.             |                               | NTS-250P-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NTS-250P-124                                                                                                                                                          | NTS-250P-148                                                    | NTS-250P-212   | NTS-250P-224                                                                    | NTS-250P-248                             |            |         |
|-----------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|------------------------------------------|------------|---------|
| AC OUTPUT             | RATED POWER(Continuous)       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 250W                                                                                                                                                                  |                                                                 |                |                                                                                 |                                          |            |         |
|                       | OVER RATED POWER(3 Min.)      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 287.5W                                                                                                                                                                |                                                                 |                |                                                                                 |                                          |            |         |
|                       | PEAK POWER(10 Sec.)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 375W                                                                                                                                                                  |                                                                 |                |                                                                                 |                                          |            |         |
|                       | SURGE POWER(30 Cycles)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 500W                                                                                                                                                                  |                                                                 |                |                                                                                 |                                          |            |         |
|                       | AC VOLTAGE                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default setting set at 110VAC<br>100 / 110 / 115 / 120Vac selectable by DIP S.W                                                                                       |                                                                 |                | Default setting set at 230VAC<br>200 / 220 / 230 / 240Vac selectable by DIP S.W |                                          |            |         |
|                       | FREQUENCY                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default setting set at 60Hz±0.1Hz<br>50/60Hz selectable by DIP S.W                                                                                                    |                                                                 |                | Default setting set at 50Hz±0.1Hz<br>50/60Hz selectable by DIP S.W              |                                          |            |         |
|                       | WAVEFORM      Note.1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | True sine wave (THD<3%)                                                                                                                                               |                                                                 |                |                                                                                 |                                          |            |         |
|                       | AC REGULATION                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ±3.0% at rated output voltage                                                                                                                                         |                                                                 |                |                                                                                 |                                          |            |         |
| LED STATUS            |                               | Please refer to page3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                 |                |                                                                                 |                                          |            |         |
| 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.)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25A                                                                                                                                                                   | 13A                                                             | 7A             | 25A                                                                             | 13A                                      | 7A         |         |
|                       | NO LOAD DISSIPATION (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 at battery ~DC input must be disconnected                                                                                                                        |                                                                 |                |                                                                                 |                                          |            |         |
|                       | EFFICIENCY (Typ.)      Note.1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 91%                                                                                                                                                                   | 91%                                                             | 92%            | 92%                                                                             | 93%                                      | 93%        |         |
| BATTERY TYPES         |                               | Lead Acid or Li-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                       |                                                                 |                |                                                                                 |                                          |            |         |
| PROTECTION            | DC INPUT                      | FUSE(Internal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                       | 30A*2                                                           | 30A*1          | 10A*2                                                                           | 30A*2                                    | 30A*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.<br>Protection type : Shut down o/p voltage, re-power on to recover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                       |                                                                 |                |                                                                                 |                                          |            |         |
| FUNCTION              | REMOTE CONTROL                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Power ON-OFF remote control by front panel dry contact connector (by RELAY), Open : Normal work ; Short : Remote off                                                  |                                                                 |                |                                                                                 |                                          |            |         |
|                       | Tx/Rx                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Support Tx/Rx for monitoring power inverter status                                                                                                                    |                                                                 |                |                                                                                 |                                          |            |         |
| ENVIRONMENT           | WORKING TEMP.                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -20 ~ +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 (Note.4) | SAFETY STANDARDS              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CB IEC62368-1 for all models; E13, EAC TPTC004, AS/NZS 62368.1 for NTS-250P-212/224/248 approved (Please refer to next page "Safety overview" table for more details) |                                                                 |                |                                                                                 |                                          |            |         |
|                       | WITHSTAND VOLTAGE             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DC I/P - AC O/P:3.0KVac AC O/P - FG:1.5KVac                                                                                                                           |                                                                 |                |                                                                                 |                                          |            |         |
|                       | EMC EMISSION                  | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                       | Standard                                                        |                |                                                                                 | Test Level / Note                        |            |         |
|                       |                               | Radiated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                       | FCC for 112,124,148 only                                        |                |                                                                                 | Class A                                  |            |         |
|                       |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                       | BS EN/EN55032(CISPR32) for 212,224,248 only                     |                |                                                                                 | 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 4, 15KV air ; Level 4, 8KV contact |            |         |
| Radiated              |                               | BS EN/EN61000-4-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                       |                                                                 | Level 3, 10V/m |                                                                                 |                                          |            |         |
| Magnetic Field        |                               | BS EN/EN61000-4-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                       |                                                                 | Level 4, 30A/m |                                                                                 |                                          |            |         |
| OTHERS                | MTBF                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 836.9K hrs min. Telcordia TR/SR-332 (Bellcore) ; 84K hrs min. MIL-HDBK-217F (25℃)                                                                                     |                                                                 |                |                                                                                 |                                          |            |         |
|                       | DIMENSION                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 186*100.5*32mm (L*W*H)                                                                                                                                                |                                                                 |                |                                                                                 |                                          |            |         |
|                       | PACKING                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.75Kg; 18pcs/ 14.5Kg/ 1.01CUFT                                                                                                                                       |                                                                 |                |                                                                                 |                                          |            |         |
| NOTE                  |                               | 1.Efficiency, AC regulation and THD are tested by 250W, 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> |                                                                                                                                                                       |                                                                 |                |                                                                                 |                                          |            |         |

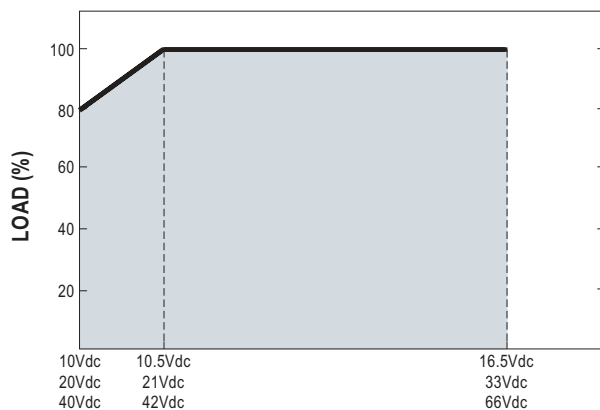
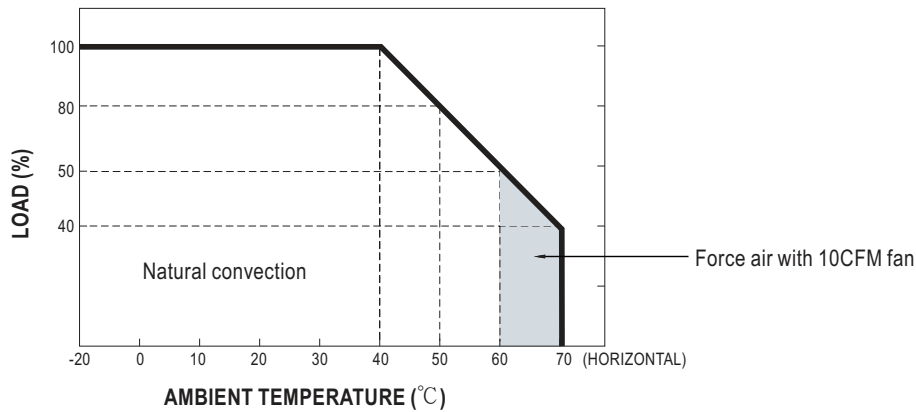
## Safety Overview

| MODEL NO.            | Certificate         |
|----------------------|---------------------|
| NTS-250P-112/124/148 | CB FC               |
| NTS-250P-212/224/248 | CB E13 EAC CE UK CA |

## Block Diagram

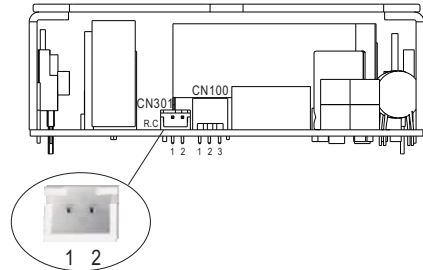


## DERATING CURVE



## ■ Remote ON-OFF Control

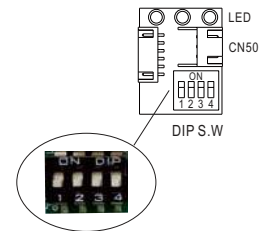
| Remote ON-OFF<br>(CN301 PIN1,2) | AC Output Status   |
|---------------------------------|--------------------|
| Open                            | power inverter ON  |
| Short                           | power inverter OFF |



## ■ 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.

| 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  |           |                      |



## ■ Support Tx/Rx for monitoring power inverter status

Users can monitor the status of the power inverter through Tx/Rx, and can modify the input and output parameters set internally.

**■ LED STATUS**

Normal work:

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

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

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

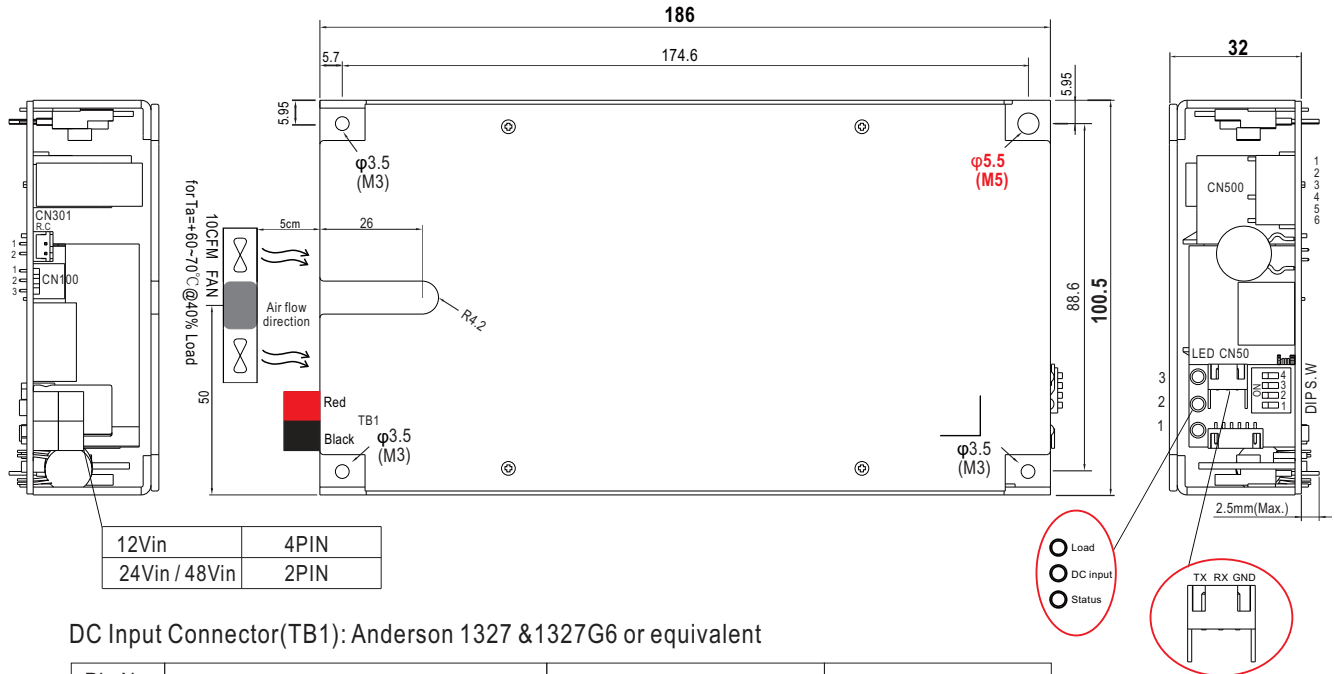
Abnormal status :

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

-  Light
-  Light off
-  Flash

## MECHANICAL SPECIFICATION

Unit:mm



DC Input Connector(TB1): Anderson 1327 & 1327G6 or equivalent

| Pin No. | Description | Mating Housing       | Terminal                 |
|---------|-------------|----------------------|--------------------------|
| Red     | DC Input +V | 1327 or equivalent   | 261G2-LPBK or equivalent |
| Black   | DC Input -V | 1327G6 or equivalent |                          |

AC Output Connector(CN500): JST B6P-VH or equivalent

| Pin No. | Assignment  | Mating Housing        | Terminal                       |
|---------|-------------|-----------------------|--------------------------------|
| 1       | FG          | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2,3     | NC          |                       |                                |
| 4       | Output AC/N |                       |                                |
| 5       | NC          |                       |                                |
| 6       | Output AC/L |                       |                                |

Remote ON-OFF Control Connector(CN301): JST S2B-XH-A or equivalent

| Pin No. | Description                        | Mating Housing        | Terminal                   |
|---------|------------------------------------|-----------------------|----------------------------|
| 1       | Pin 1,2 Open: Inverter Normal work | JST XHP or equivalent | JST SXH-001T or equivalent |
| 2       | Pin 1,2 Short: Inverter Remote off |                       |                            |

Communicating Function Connector(CN50): CHYAO SHIUN JS-100R-03 or equivalent

| Pin No. | Description | Mating Housing                     | Terminal                              |
|---------|-------------|------------------------------------|---------------------------------------|
| 1       | Signal GND  | CHYAO SHIUNN JS-2001 or equivalent | CHYAO SHIUNN JS-2001-TX or equivalent |
| 2       | UART-RX     |                                    |                                       |
| 3       | UART-TX     |                                    |                                       |

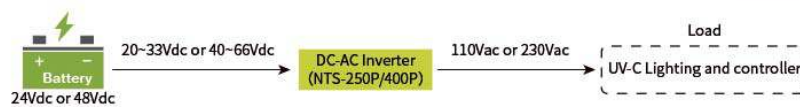
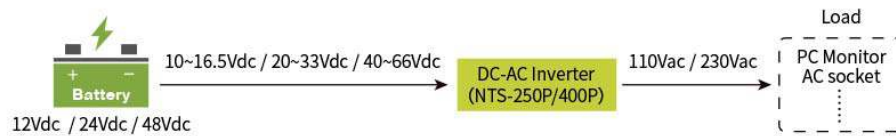
FAN Connector(CN100): JST B3B-XH-A or equivalent

Suggested Fan model: CCHV CHT4012BH-W20D 4020B

| Pin No. | Description                      | Mating Housing        | Terminal                   |
|---------|----------------------------------|-----------------------|----------------------------|
| 1       | Fan supply +V                    | JST XHP or equivalent | JST SXH-001T or equivalent |
| 2       | Fan supply -V                    |                       |                            |
| 3       | PWM signal for Fan speed control |                       |                            |

DIP SW: Please refer to page4 for more detail

## TYPICAL APPLICATION



## INSTALLATION MANUAL

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