### Features:
- True sine wave output (THD<3%)
- High surge power up to 6000W
- U.P.S. mode and energy saving mode (selectable)
- High efficiency up to 92%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload / AC circuit breaker
- Application: Home appliance, power tools, office and portable equipment, vehicle and yacht... etc.
- Built-in solar / AC charger
- Computer-based monitoring software (Note.7)
- 3 years warranty

## Specification

### Model
- **Output Power**: 3000W
- **Output Voltage**: Factory setting set at 110VAC
- **Output Frequency**: 60 ±0.1Hz
- **Waveform**: True sine wave (THD<3%)
- **AC Regulation**: ±3%
- **Environment**: 10% ~ 50%RH non-condensing
- **Reliability**: 5% ± ℃

### Dimensions
- **RATED POWER (Typ.)**: 3000W
- **MAXIMUM OUTPUT POWER (Typ.)**: 3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles
- **AC VOLTAGE**: Factory setting set at 230VAC
- **FREQUENCY**: 50/60Hz selectable by setting button S.W
- **VOLTAGE RANGE (Typ.)**: 90 ~ 15VDC
- **DC CURRENT (Typ.)**: 300A
- **NO LOAD DISSIPATION (Typ.)**: ≤1W @ standby saving mode
- **EFFICIENCY (Typ.)**: 88%
- **BATTERY TYPES**: Open & sealed lead acid battery
- **BATTERY VOLTAGE**: 12V
- **BATTERY CURRENT**: 1mA

### Environment
- **WORKING TEMPERATURE**: Note.2
- **WORKING HUMIDITY**: 50% ± ℃
- **STORAGE TEMPERATURE**: -30 ~ +70℃
- **VIBRATION**: 10 ~ 50Hz, 3G min./1cycle, 60min. each along X, Y, Z axes
- **SAFETY STANDARDS**: UL458 (only for Type G)
- **LVD**: None
- **WITHSTAND VOLTAGE**: Bat/1P - AC I/P 3.0kVAC
- **ISOLATION RESISTANCE**: Bat/1P - AC O/P: 10M ohms / 500VDC / 25℃ ± 70% RH
- **EMC EMISSION**: Compliance to EN55022 class B, 24V/5V CE, 95/54/CE, E-Mark
- **EMC IMMUNITY**: None

### AC Charger
- **CHARGE CURRENT (Typ.)**: 25A
- **CHARGE VOLTAGE**: 12V
- **MAX OPEN CIRCUIT VOLTAGE**: 28V
- **SHORT CIRCUIT CURRENT (max.)**: 30A

### Others
- **CONTROL WIRING**: RJ11 - RS232
- **DIMENSION**: 486.8*283.5*100mm (L*W*H)
- **PACKING**: 12.9Kg, 1pcs/14Kg/1.49CUFT

### Notes:
1. Efficiency is tested by 2100W, linear load at 13V, 26W, 52W input voltage.
2. Output derating capacity referenced by curve 1.
3. Input derating capacity referenced by curve 2.
4. DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage.
5. All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting.
6. The tolerance of each voltage value by models is: 112/212 ±0.5V/124/224 ±1V:148/248 ±2V.
7. The cable is enclosed for the connection between TN-3000 and computer for software monitoring.
8. THD is tested by 3000W, linear load at 13,26,52V input voltage.
9. Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly.
Instructions for TN-3000 monitoring software

1. The monitoring software can be downloaded from product section (with TN-3000 specification) on MEAN WELL’s official website, http://www.meanwell.com
2. The monitoring software can run on Windows 7 English version, Windows 7 Chinese (Traditional, Taiwan) version, Windows 8 English version and Windows 8 Chinese (Traditional, Taiwan) version
3. Installation of TN-3000 unit and PC

4. Explanation of Monitoring Manual

4.1 Main Page

1. Setting: Adjustment for output voltage, charging related voltage, frequency, and operation mode. Please refer to Figure 3 for details.
2. Statistics: Calculate for the percentage of operating period for each operation mode. Please refer to Figure 4 for details.
3. R.C. Power off: Power can be turned ON or OFF at the remote location.
4. Pause: Stop refreshing the page of monitoring software.
6. Signals that display current condition of the unit.
4.2 Setting Page

1. User can adjust the settings based on the characteristics of batteries been used: Equalization Voltage, Floating Voltage, Alarm Voltage, and Shut-down Voltage. UPS Mode / Energy Saving Mode selection and AC output voltage and frequency can also be set in this page.

2. Read: Read current settings of the unit.

3. Write: Write the revised setting into the unit.

4. Load: Load in factory default settings.

4.3 Statistic Page

1. Start Date: Date that installing the monitoring software.

2. Reset Date: Date that resetting the statistics. The Start Date will not be influenced by resetting the statistics or turning off the unit.

3. Inverter time rate: Operating period of "Inverter Mode" represents how many percent of the whole operating period.

4. Bypass time rate: Operating period of "Bypass Mode" (energy provides directly by the utility) represents how many percent of the whole operating period.

5. Shut down rate: Percentage of time period that the unit is under the condition of shut down.

* Inverter time rate + Bypass time rate + Shut down rate = 100%

6. Solar time rate: Percentage of time period that the solar charger is functioning after turning on the TN-3000 unit.

7. Loading average: Average loading after turning on the TN-3000 unit.
3000W True Sine Wave DC-AC Inverter with Solar Charger

**AC Output Receptacle (optional)**

- **True sine wave inverter**
- **+AC charger and solar charger**

**O/P Wattage:** 3000W

**Unit:mm**

**Mechanical Specification**

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<th>Type-A</th>
<th>Type-B</th>
<th>Type-C</th>
<th>Type-D</th>
<th>Type-E</th>
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**Derating Curve**

- **Curve 1**
- **Curve 2**

**Remote port**

- **Circuit Breaker (For Receptacle)**
- **Chassis Ground**

**Cat.No.** (1GG1HS-212)

**Wire Range** (10-4 AWG Str Cu Soldered Wires)

**Torque** (17.7-26.5 in lb)

**Note:** When the load current is >15A, must use output terminal connection which can be found inside the AC output panel of the inverter.