



# 300W Modified Sine Wave DC-AC Power Inverter **A-301/302-300 series**



### ■ Features :

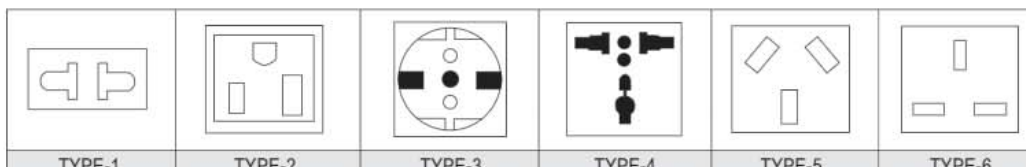
- 12V or 24V DC input
- Power ON-OFF switch
- Input voltage range: -15% ~ +25%
- Output voltage regulation: ±10%
- Protections: Bat. Low alarm/Bat. Low shutdown/Over voltage/Over temp./Output short/Input polarity reverse/Over load.
- Output waveform: Modified sine wave
- Cooling fan ON-OFF control
- Topology: Microprocessor
- Approvals: e13/ CE
- 1 year warranty



### SPECIFICATION

| ORDER NO.     | A301-300-B2                                              | A301-300-F3                                                                    | A302-300-B2 | A302-300-F3                                    |             |
|---------------|----------------------------------------------------------|--------------------------------------------------------------------------------|-------------|------------------------------------------------|-------------|
| OUTPUT        | SAFETY MODEL NO. A-300-300W                              |                                                                                |             |                                                |             |
|               | AC VOLTAGE                                               | 110V                                                                           | 230V        | 110V                                           | 230V        |
|               | RATED POWER                                              | 300W                                                                           |             |                                                |             |
|               | SURGE POWER                                              | 600W                                                                           |             |                                                |             |
|               | WAVEFORM                                                 | Modified Sine Wave                                                             |             |                                                |             |
|               | FREQUENCY                                                | 60Hz±1%                                                                        | 50Hz±1%     | 60Hz±1%                                        | 50Hz±1%     |
|               | AC REGULATION                                            | ±10%                                                                           |             |                                                |             |
|               | STANDARD RECEPTACLES                                     | TYPE-2* 2ea                                                                    | TYPE-3* 1ea | TYPE-2* 2ea                                    | TYPE-3* 1ea |
| LED INDICATOR | Green LED for power on; Red LED for power failure status |                                                                                |             |                                                |             |
| INPUT         | DC CURRENT                                               | 35A                                                                            |             | 15A                                            |             |
|               | NO LOAD CURRENT DRAW                                     | 0.36A                                                                          |             | 0.2A                                           |             |
|               | DC VOLTAGE                                               | 12V                                                                            |             | 24V                                            |             |
|               | VOLTAGE RANGE                                            | 10 ~ 15VDC                                                                     |             | 21 ~ 30VDC                                     |             |
|               | EFFICIENCY (Typ.)                                        | 82%                                                                            |             | 85%                                            |             |
|               | DC CONNECTOR                                             | Cigarette plug*1ea, Battery clip*1ea                                           |             | Cigarette plug*1ea, Battery clip*1ea           |             |
|               | FUSE                                                     | Battery cord 35 A * 1, Cigarette plug 15 A * 1                                 |             | Battery cord 20 A * 1, Cigarette plug 10 A * 1 |             |
| PROTECTION    | BAT. LOW ALARM                                           | 10±0.5V                                                                        |             | 20±0.8V                                        |             |
|               | BAT. LOW SHUTDOWN                                        | 9.5±0.5V                                                                       |             | 19.5±0.8V                                      |             |
|               | OVER VOLTAGE                                             | 15 ~ 17V                                                                       |             | 30 ~ 32V                                       |             |
|               | OVER TEMPERATURE                                         | 45±5°C / 113±9°F                                                               |             |                                                |             |
|               | OUTPUT SHORT                                             | Shut-off                                                                       |             |                                                |             |
|               | BAT. POLARITY                                            | By fuse open                                                                   |             |                                                |             |
| ENVIRONMENT   | WORKING TEMP.                                            | 0 ~ 30°C @ 100% load, 40°C @ 50% load                                          |             |                                                |             |
|               | WORKING HUMIDITY                                         | 20% ~ 90% RH non-condensing                                                    |             |                                                |             |
|               | STORAGE TEMP., HUMIDITY                                  | -30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH                                        |             |                                                |             |
|               | TEMP. COEFFICIENT                                        | ±0.05% / °C (0 ~ 50°C)                                                         |             |                                                |             |
| SAFETY & EMC  | ISOLATION RESISTANCE                                     | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH                                     |             |                                                |             |
|               | EMI RADIATION                                            | Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE                        |             |                                                |             |
|               | EMS IMMUNITY                                             | Compliance to EN61000-4-2,3                                                    |             |                                                |             |
|               | LVD                                                      | Compliance to EN60950                                                          |             |                                                |             |
| OTHERS        | MTBF                                                     | 200Khrs min. MIL-HDBK-217F (25°C)                                              |             |                                                |             |
|               | DIMENSION                                                | 165*88*74mm (L*W*H)                                                            |             |                                                |             |
|               | PACKING                                                  | 1.1kg ; 16pcs / 19kg / CARTON                                                  |             |                                                |             |
|               | COOLING                                                  | >100W or >40°C (NTC) fan on                                                    |             |                                                |             |
|               | APPLICATIONS                                             | Home appliance, Power tools, Office and Portable equipment and Vehicle ...etc. |             |                                                |             |

### ■ AC Output Receptacles (optional)

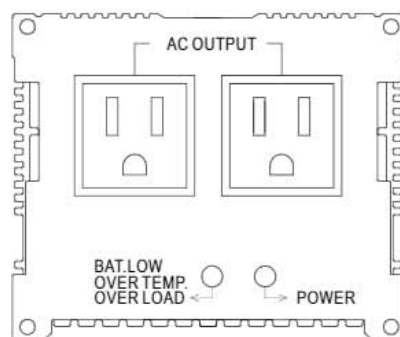
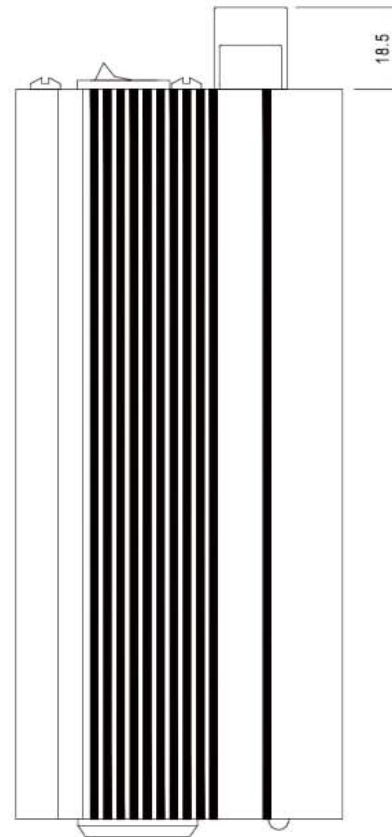
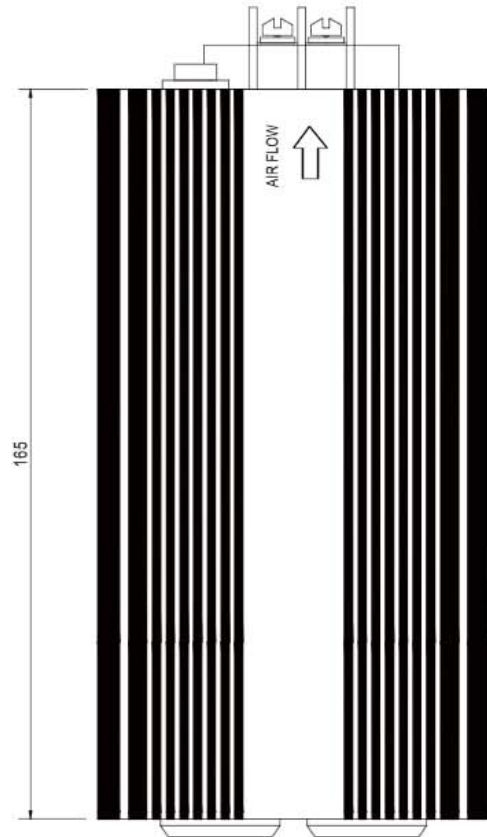
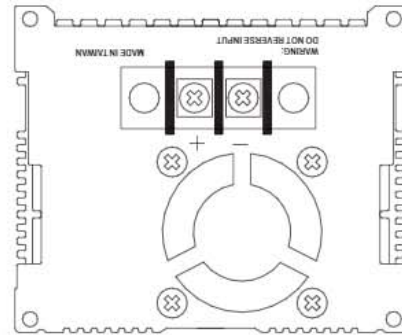
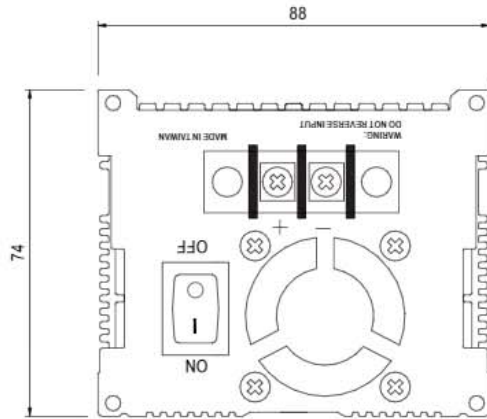




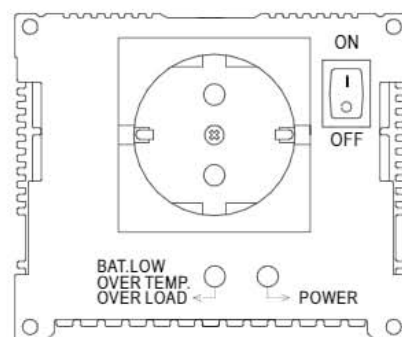
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## Mechanical Specification

Unit:mm



USA



EUROPE