



**samlex**america

# 300W



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**2 YEAR WARRANTY**

## DC-AC Inverter Pure Sine Wave

Model

SA-300-112  
12 VDC-110 VAC

SA-300-124  
24 VDC-110 VAC

### Design Features

- Optional remote power ON / OFF capability
- Isolated input and output
- Thermal controlled cooling fan
- Advanced microprocessor design
- Input polarity reverse / under voltage / over voltage protections
- Output short circuit / overload / over temperature protections
- Capable of driving highly reactive and capacitive loads
- Tri-color indicators display input, output level & failure status
- True sine wave output (THD 6% Typ.)

|                       | MODEL No.                      | SA-300-112                                                                                                      | SA-300-124                                |
|-----------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| OUTPUT                | AC VOLTAGE                     | 12 VDC - 110 VAC                                                                                                | 24 VDC - 110 VAC                          |
|                       | CONTINUOUS OUTPUT POWER        | 300 W                                                                                                           | 300 W                                     |
|                       | PEAK OUTPUT POWER              | 400 W                                                                                                           | 400 W                                     |
|                       | WAVEFORM                       | True sine wave (THD < 6%)                                                                                       | True sine wave (THD < 6%)                 |
|                       | FREQUENCY                      | 60Hz                                                                                                            | 60Hz                                      |
|                       | AC REGULATION                  | ± 5%                                                                                                            | ± 5%                                      |
|                       | POWER FACTOR ALLOWED           | COSφ -90° ~ COSφ +90°                                                                                           | COSφ -90° ~ COSφ +90°                     |
|                       | STANDARD RECEPTACLES           | NEMA5-15R / GFCI                                                                                                | NEMA5-15R / GFCI                          |
| INPUT                 | LED INDICATOR                  | Input voltage level, output load level and fault status                                                         |                                           |
|                       | NO LOAD CURRENT DRAW           | 0.24A                                                                                                           | 0.28A                                     |
|                       | DC VOLTAGE                     | 12 VDC                                                                                                          | 24 VDC                                    |
|                       | VOLTAGE RANGE                  | 10.5 ~ 15.0 VDC                                                                                                 | 21.0 ~ 30.0 VDC                           |
|                       | EFFICIENCY (Typ.)              | 89.0%                                                                                                           | 89.0%                                     |
|                       | FUSE                           | 40A x 1                                                                                                         | 25A x 1                                   |
| PROTECTION            | REMOTE CONTROL                 | By external switch                                                                                              | By external switch                        |
|                       | BATTERY LOW SHUTDOWN           | 10 ± 0.5V                                                                                                       | 20 ± 1.0V                                 |
|                       | OVER LOAD                      | Shut off output voltage, re-power on to recover                                                                 |                                           |
|                       | OVER VOLTAGE                   | 15 ~ 16 VDC                                                                                                     | 30 ~ 32 VDC                               |
|                       | OVER TEMPERATURE               | Shut off output voltage, recovers automatically after temperature goes down                                     |                                           |
| ENVIRONMENT           | OUTPUT SHORT                   | Shut off output voltage, re-power on to recover                                                                 |                                           |
|                       | BATTERY POLARITY REVERSE       | By fuse open                                                                                                    | By fuse open                              |
|                       | WORKING TEMPERATURE            | 0 ~ +40°C                                                                                                       | 0 ~ +40°C                                 |
|                       | WORKING HUMIDITY               | 20% ~ 90% RH non-condensing                                                                                     | 20% ~ 90% RH non-condensing               |
|                       | STORAGE TEMPERATURE & HUMIDITY | -30°C ~ +70°C / -22°F ~ +158°F / 10 ~ 95%                                                                       | -30°C ~ +70°C / -22°F ~ +158°F / 10 ~ 95% |
| SAFETY & EMC          | SAFETY STANDARDS               | UL458 (models with GFCI receptacles)                                                                            | UL458 (models with GFCI receptacles)      |
|                       | ISOLATION RESISTANCE           | I/P ~ O/P: 100M Ohms / 500 VDC                                                                                  | I/P ~ O/P: 100M Ohms / 500 VDC            |
|                       | EMI CONDUCTION & RADIATION     | Compliance to FCC class B                                                                                       | Compliance to FCC class B                 |
|                       | EMS IMMUNITY                   | ----                                                                                                            | ----                                      |
|                       | LVD                            | ----                                                                                                            | ----                                      |
| DIMENSIONS/<br>WEIGHT | e-MARK                         | ----                                                                                                            | ----                                      |
|                       | INCHES                         | 9.3 x 6.1 x 2.8 (L x W x H)                                                                                     | 9.3 x 6.1 x 2.8 (L x W x H)               |
|                       | MILLIMETERS                    | 237 x 155 x 72 (L x W x H)                                                                                      | 237 x 155 x 72 (L x W x H)                |
|                       | POUNDS                         | 7.7; 4 sets / 37.5 / CARTON                                                                                     | 7.7; 4 sets / 37.5 / CARTON               |
| OTHERS                | KILOGRAMS                      | 3.5; 4 sets / 17 / CARTON                                                                                       | 3.5; 4 sets / 17 / CARTON                 |
|                       | COOLING                        | Thermostatically controlled cooling fan                                                                         |                                           |
|                       | APPLICATION                    | Home and Office appliances, Power tools and Portable equipments, Vehicle, Yacht and Solar power systems ...etc. |                                           |

NOTE: Specifications are subject to change without notice