



**samlex**america®

# 450W



**DC-AC Inverter**  
⚡ **Modified Sine Wave**

Model  
**SAM-450-12**  
12 VDC- 115 VAC

### Design Features

- USB charging port: 5 VDC, 2.1A
- Compact design with cigar lighter plug included
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault
- Soft start technology
- Cool surface technology
- Power save mode
- Low interference technology



**2 YEAR WARRANTY**

|             |            | MODEL NO.                                       | SAM-450-12  |
|-------------|------------|---|---|
| INPUT       |            | BATTERY SYSTEM VOLTAGE                          | 12 VDC  |
|             |            | NOMINAL INPUT VOLTAGE                           | 12.5 VDC  |
|             |            | INPUT VOLTAGE RANGE                             | > 10.8 VDC to < 15.4 VDC  |
|             |            | INPUT CURRENT AT CONTINUOUS POWER               | 41.3A to 43.3A  |
|             |            | INPUT CURRENT AT NO LOAD                        | 0.25A to 0.35A  |
| OUTPUT      |            | OUTPUT VOLTAGE WAVE FORM                        | Modified Sine Wave  |
|             |            | OUTPUT VOLTAGE                                  | 115 VAC   |
|             |            | OUTPUT VOLTAGE REGULATION                       | + 10% / - 2%  |
|             |            | OUTPUT FREQUENCY                                | 60 Hz ± 5%  |
|             |            | OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)       | 450W  |
|             |            | OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)   | 900W  |
| PROTECTIONS |            | PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)    | 90%   |
|             |            | USB CHARGING PORT                               | 5 VDC, 2.1A   |
|             |            | LOW INPUT VOLTAGE ALARM                         | Yes (10.8 ± 0.3 VDC)  |
|             |            | LOW INPUT VOLTAGE SHUTDOWN                      | 10.5 ± 0.3 VDC  |
|             |            | HIGH INPUT VOLTAGE SHUTDOWN                     | Yes. (> 15.5 VDC)   |
|             |            | OVERLOAD SHUT DOWN                              | Yes (Latches in shutdown condition. Manual reset by switching OFF and switching ON the ON/OFF Switch) |
|             |            | OVER TEMPERATURE SHUTDOWN                       | Yes (Auto reset)  |
|             |            | COOLING FAN, LOAD CONTROLLED, ON AT             | 8 to 12W  |
| CONNECTIONS |            | LEAKAGE PROTECTION                              | Yes (Shutdown)  |
|             |            | INPUT FUSE, 32V                                 | 70A (2 X 35A)   |
|             |            | INPUT CONNECTION                                | Nut and Bolt  |
|             |            | OUTPUT CONNECTION - No OF NEMA5-15R RECEPTACLES | 2   |
| GENERAL     |            | REMOTE CONTROL PORT                             | No  |
|             |            | OPERATING TEMPERATURE RANGE                     | 0 to 25°C at 100% loading; 26°C to 35°C at 80% loading  |
|             |            | OPERATING HUMIDITY                              | < 80%   |
|             |            | NEUTRAL TO CHASSIS BONDING                      | No. Neutral is floating   |
|             |            | DIMENSIONS, MM (L x W x H)                      | 151 x 154 x 56.5  |
|             |            | DIMENSIONS, INCHES (L x W x H)                  | 6.0 x 6.1 x 2.2   |
|             | WEIGHT, KG | 0.6   |   |
|             | WEIGHT, LB | 1.3   |   |

NOTE: Specifications are subject to change without notice

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