



# samlexamerica®

# 800W



## DC-AC Inverter Modified Sine Wave

Model  
SAM-800-12  
12 VDC- 115 VAC

### Design Features

- USB charging port +5 VDC, 2.1A
- Compact design
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: Low voltage, over temperature, overload, short circuit, and ground fault
- Soft start technology
- Cool surface technology
- Power save mode
- Low interference technology



## 2 YEAR WARRANTY

| MODEL NO.   |                                                 | SAM-800-12                                                                                              |
|-------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 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               | 80A                                                                                                     |
|             | 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 $\pm$ 5%                                                                                          |
|             | OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)       | 800W                                                                                                    |
|             | OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)   | 1600W                                                                                                   |
|             | PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)    | 90%                                                                                                     |
| PROTECTIONS | USB CHARGING PORT                               | 5 VDC, 2.1A                                                                                             |
|             | LOW INPUT VOLTAGE ALARM                         | Yes (10.8 $\pm$ 0.3 VDC)                                                                                |
|             | LOW INPUT VOLTAGE SHUTDOWN                      | 10.5 $\pm$ 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             | 35 to 45W                                                                                               |
|             | LEAKAGE PROTECTION                              | Yes (Shutdown)                                                                                          |
|             | INPUT FUSE, 32V                                 | 105A (3 X 35A)                                                                                          |
| CONNECTIONS | INPUT CONNECTION                                | Nut and Bolt                                                                                            |
|             | OUTPUT CONNECTION - No OF NEMA5-15R RECEPTACLES | 2                                                                                                       |
|             | REMOTE CONTROL PORT                             | No                                                                                                      |
| GENERAL     | 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)                      | 218 x 180 x 59                                                                                          |
|             | DIMENSIONS, INCHES (L x W x H)                  | 8.6 x 7 x 2.4                                                                                           |
|             | WEIGHT, KG                                      | 1.32                                                                                                    |
|             | WEIGHT, LB                                      | 2.91                                                                                                    |

NOTE: Specifications are subject to change without notice

12002-SAM-800-12-0924

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