



samlexamerica®

1500W



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

Model
SAM-1500C-12
12 VDC - 115 VAC

Design Features

- Integrated 1500W Modified Sine Wave Inverter, 30A Transfer switch, and 3 Stage 12 VDC, 15A Battery Charger.
- High efficiency, lightweight, and compact for easy installation
- Separate ON/OFF control for Inverter and Battery Charger for selectable operation as inverter, charger or UPS function
- 4 color LED indicators to monitor operational status
- Load controlled fan for efficient cooling when required
- Allows use of higher capacity external 12V battery bank for longer backup time
- Neutral to Ground Bond Switching Relay for grounding compliance
- Electronic protections including GFCI when in Inverter Mode
- Ideal for RV's, Trucks and remote housing

MODEL NO. SAM-1500C-12		
OUTPUT - INVERTER MODE	CONTINUOUS ACTIVE OUTPUT POWER	1500W (Power Factor = 1)
	MAXIMUM SURGE POWER	3000W (<1 sec; Power Factor = 1)
	NOMINAL OUTPUT VOLTAGE	115 VAC, +10% / -5%
	OUTPUT FREQUENCY	60 Hz ± 5%
	PEAK EFFICIENCY	90% (@ 50% load)
	INVERTER ON/OFF CONTROL	By front panel Switch
OUTPUT - GRID PASS THROUGH	NOMINAL VOLTAGE, FREQUENCY OF GRID	120 VAC, 60 Hz
	MAXIMUM POWER	1500W (Power Factor = 1; Battery fully charged)
INPUT - BATTERY	BATTERY SYSTEM VOLTAGE	12V (10.5V to 15.5V ± 0.5V)
	DC CURRENT DRAW FROM BATTERY AT RATED OUTPUT POWER	150A
	DC NO LOAD CURRENT DRAW IN INVERTER MODE	0.65A to 0.85A
INPUT - GRID	NOMINAL VOLTAGE, FREQUENCY	120 VAC, 60 Hz
	MAXIMUM AC INPUT CURRENT - GRID PASS THROUGH	15A (Protected by 15A breaker)
TRANSFER SPECIFICATIONS	CURRENT RATING OF TRANSFER RELAY	30A
	TRANSFER TIME FROM GRID TO INVERTER	2 to 3 seconds
	TRANSFER TIME FROM INVERTER TO GRID	Up to 1 second
BATTERY CHARGER	CHARGING ALGORITHM	2 Stage Charger - Bulk & Float
	FLOAT VOLTAGE	13.8V ± 0.3V
	BULK CHARGE/MAX. CHARGING CURRENT	15A
	MAXIMUM AC INPUT CURRENT	< 5A
	AC INPUT POWER FACTOR	0.6
	VOLTAGE & CURRENT RATING OF FUSE/BREAKER	125V/250V, 5A
PROTECTIONS	CHARGER ON/OFF CONTROL	By front panel Switch
	OVERLOAD SHUTDOWN	Yes. Manual reset.
	LOW BATTERY INPUT (VOLTAGE) ALARM	10.8 ± 0.3V
	LOW BATTERY (INPUT) VOLTAGE SHUTDOWN	10.5 ± 0.3V
	BATTERY (INPUT) OVER VOLTAGE SHUTDOWN	> 15.5V
	COOLING - LOAD CONTROLLED FAN	Inverter Mode: ON at 85W Charging Mode: ON at charging current > 3A ± 1A
	OVER TEMPERATURE SHUTDOWN	Yes. Auto reset
CONNECTIONS	GROUND FAULT SHUTDOWN	Yes. Manual Reset.
	DC INPUT REVERSE POLARITY	Fuse 240A (8 pcs. 30A Automotive Type ATC Fuses in parallel)
	DC INPUT	Nut & Bolt, M9
	AC INPUT / AC OUTPUT	6 foot cord with NEMA5-15P Plug / 2 x NEMA5-15R Outlets
GENERAL	LED DISPLAY	GREEN "Inverter"; GREEN "Charger"; RED "Fault"; YELLOW "Input Fault"
	OPERATING TEMPERATURE RANGE (MIN. TO MAX.)	0°C to 25°C / 32°F to 77°F at 100% loading; 26°C to 35°C / 78.8°F to 95°F at 80% loading
	OPERATING HUMIDITY	< 80%; Non-condensing
	DIMENSIONS (W X D X H)	202 x 345 x 84 mm / 7.95 x 13.58 x 3.30 in
	WEIGHT	4.0 kg / 8.82 lb

NOTE: Specifications are subject to change without notice

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