samlexamerica

DC-AC Inverter A-Pure Sine Wave

Model ST1500 12 ~ 48 VDC

ST1500-148

Design Features

- Pure sine wave output (THD < 3%) Built-in 30 A transfer relay and 30 A AC circuit breaker AC output of the inverter is kept synchronized in frequency and in phase with the AC input source to protect the load and the inverter for faster transfer
- Switch selectable output frequency: 50 / 60 Hz Switch selectable Power Save Mode (Sleep Mode) wherein the inverter shuts off non essential circuitry and reduces its no load self consumption. It searches for load and wakes up when it sees a minimum programmed load (40 - 280 W) Remote on/off control through external contact closure by
- mechanical / transistor switch
- Optional wired remote controls for on / off and monitoring the operation. Includes Ignition Lockout and Reverse Override Function (ROF)
- Input and output are fully isolated
- Advanced micro-controller Load controlled cooling fan saves power consumption
- 3 tri-color LEDs display operational status and fault indications
- Protections: overload; short circuit; leakage; low and high DC input voltages; high temperature; reverse polarity Safety: Meets UL-458 (Pending listing)
- EMC: Complies with FCC Part 15(B), Class A

< 3%



MODE	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	1500 W			
	SURGE OUTPUT POWER (At Power Factor = 1)	3000 W			
	PEAK EFFICIENCY (At full load)	88%	91%	92%	
	AC OUTPUT CONNECTIONS	Te	rminal Block for hard wir	ing	
OUTPUT IN BY-PASS	OUTPUT VOLTAGE	Same as external AC input source			
	OUTPUT FREQUENCY	Same as external AC input source			
	TYPE OF OUTPUT WAVEFORM		Same as external AC input source		
MODE	TOTAL HARMONIC DISTORTION	Same as external AC input source			
	CONTINUOUS OUTPUT POWER	Load to be limited to 1500 W. Protected by 30 A breaker			
INPUT	NOMINAL DC INPUT VOLTAGE	12 VDC	24 VDC	48 VDC	
	DC INPUT VOLTAGE RANGE	10.5 to 15 VDC	21 to 30 VDC	42 to 60 VDC	
	DC INPUT CURRENT AT NO LOAD (Power Save enabled)	0.28 A	0.15 A	0.09 A	
	DC INPUT CURRENT AT NO LOAD (Power Save disabled)	1.45 A	0.75 A	0.4 A	
	DC INPUT CONNECTIONS	M-8 nut & bolt / Wire with M-8 ring lug terminal			
	AC INPUT CONNECTIONS	Terminal Block for hard wiring			
POWER SAVE	ACINI OT CONNECTIONS				
(SLEEP) MODE	ENABLED OR DISABLED BY DIP SWITCHES	Wake up threshold: 40 to 280 W (Selected by DIP Switches)			
TRANSFER	RATING	30 A			
SWITCH	SWITCHING TIMES	AC input source to inverter: 16-50 msec; Inverter to AC input source : 8 -10 msec			
LOCAL DISPLAY	LED DISPLAY	Three, 3-color (Green, Orange, Red) LEDs for operational and fault status			
REMOTE	WIRED ON/OFF CONTROL	By external contact closure through mechanical / transistor switch			
OPERATION &	OPTIONAL REMOTE CONTROL PANEL (SIMPLE)	SR-8			
INDICATIONS	OPTIONAL REMOTE CONTROL PANEL (UPGRADED)	SR6-12	SR6-24	Nil	
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	11 VDC	22 VDC	44 VDC	
	LOW DC INPUT VOLTAGE SHUTDOWN	10.2 VDC	20.3 VDC	40.8 VDC	
	HIGH DC INPUT VOLTAGE SHUTDOWN	15.3 VDC	30.6 VDC	61.2 VDC	
	SHORT CIRCUIT SHUTDOWN	Yes			
	OVERLOAD SHUTDOWN	Yes			
	OVER TEMPERATURE SHUTDOWN	Yes			
	REVERSE POLARITY ON DC INPUT SIDE	Y	Yes. Internal fuses will blow		
	OVERLOAD PROTECTION - AC INPUT SOURCE	30 A Circuit Breaker			
COOLING	FORCED AIR COOLING	1 fan. Will switch on / off at specified values of load			
COMPLIANCE	SAFETY	Meets UL Standard UL-458 (pending listing)			
	EMI / EMC	Meets FCC Part 15(B), Class A			
ENVIRONMENT	OPERATING TEMPERATURE RANGE		0 °C to + 40 °C		
	STORAGE TEMPERATURE RANGE	- 30 °C to 70 °C			
DIMENSIONS	(L X W X H), MM	403 x 236 x 115			
	(L X W X H), INCHES	15.9 x 9.29 x 4.53			
WEIGHT	KG	7.0			
	LBS		15.4		
	EDJ		1.7.7		

NOTE: Specifications are subject to change without notice

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