



samlexamerica®

DC-AC Inverter With Transfer Switch Pure Sine Wave

Model
ST1500
12 ~ 48 VDC



2 YEAR WARRANTY

Design Features

- Built-in 35A transfer switch and 16A 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 Power Save Mode (Sleep Mode)
- 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 Over-ride 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

	MODEL NO.	ST1500-112	ST1500-124	ST1500-148
OUTPUT IN INVERTER MODE	OUTPUT VOLTAGE		120 VAC +/- 5%	
	OUTPUT FREQUENCY		50 / 60 Hz (Switch selectable)	
	TYPE OF OUTPUT WAVEFORM		Pure Sine Wave	
	TOTAL HARMONIC DISTORTION		< 3%	
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)		1500W	
	SURGE OUTPUT POWER (At Power Factor = 1)		3000W	
	PEAK EFFICIENCY (At full load)	88%	91%	92%
	AC OUTPUT CONNECTIONS	Terminal Block for hard wiring		
OUTPUT IN BY-PASS MODE	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		
	TOTAL HARMONIC DISTORTION	Same as external AC input source		
	CONTINUOUS OUTPUT POWER	Load to be limited to 1500W. Protected by 16A 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)	0.28A	0.15A	0.09A
	DC INPUT CURRENT AT NO LOAD (Power Save disabled)	1.45A	0.75A	0.4A
	DC INPUT CONNECTIONS	M-8 nut & bolt / Wire with M-8 ring lug terminal		
	AC INPUT CONNECTIONS	Terminal Block for hard wiring		
POWER SAVE (SLEEP) MODE	ENABLED OR DISABLED BY DIP SWITCHES	Wake up threshold: 20 to 135W (Selected by DIP Switches)		
TRANSFER SWITCH	RATING	35A		
	SWITCHING TIMES (Power Save OFF)	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 OPERATION & INDICATIONS	WIRED ON/OFF CONTROL	By external contact closure through mechanical / transistor switch		
	OPTIONAL REMOTE CONTROL PANEL (SIMPLE)	S-R8		
	OPTIONAL REMOTE CONTROL PANEL (UPGRADED)	S-R6-12	S-R6-24	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		Yes. Internal fuses will blow	
COOLING	OVERLOAD PROTECTION - AC INPUT SOURCE	16A Circuit Breaker		
COMPLIANCE	FORCED AIR COOLING	1 fan. Will switch ON/OFF at specified values of load		
ENVIRONMENT	SAFETY	Meets UL Standard UL-458 (pending listing)		
	EMI	Meets FCC Part 15(B), Class A		
DIMENSIONS	OPERATING TEMPERATURE RANGE	0°C to + 40°C / 32°F to 104°F		
	STORAGE TEMPERATURE RANGE	- 30°C to 70°C / - 22°F to 158°F		
WEIGHT	(W X D X H), MM	236 x 403 x 115		
	(W X D X H), INCHES	9.29 x 15.9 x 4.53		
	KG	7.0		
	LBS	15.4		

NOTE: Specifications are subject to change without notice

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