



**2 YEAR WARRANTY** 

DC-AC Inverter
With Transfer Switch
◆ Pure Sine Wave

| Model | ST1000 | 12 ~ 48 VDC

## **Design Features**

- Built-in 35A transfer relay and 12A 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.	ST1000-112	ST1000-124	ST1000-148	
	OUTPUT VOLTAGE		120 VAC +/- 5	• -	
OUTPUT IN INVERTER MODE	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)		1000W		
	SURGE OUTPUT POWER (At Power Factor = 1)		2000W		
	PEAK EFFICIENCY (At full load)	88%	90%	92%	
	AC OUTPUT CONNECTIONS		Terminal Block for har	rd 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	Load to be limited to 1000W. Protected by 12A breaker		
INPUT	NOMINAL DC INPUT VOLTAGE	12 VDC	24 VDC	48 VDC	
	DC INPUT VOLTAGE RANGE	10.5 to 15 VDC			
	DC INPUT CURRENT AT NO LOAD (Power Save enabled)	0.25A	0.15A	0.09A	
	DC INPUT CURRENT AT NO LOAD (Power Save disabled)	1.43A	0.75A	0.38A	
	DC INPUT CONNECTIONS				
	AC INPUT CONNECTIONS	IVI-O II	M-8 nut & bolt / Wire with M-8 ring lug terminal 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	RATING	35A			
SWITCH	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	WIRED ON/OFF CONTROL				
OPERATION & INDICATIONS	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		
	OVERLOAD PROTECTION - AC INPUT SOURCE		12A Circuit Breaker		
COOLING	FORCED AIR COOLING	1 fan \	1 fan. Will switch ON/OFF at specified values of load		
COOLING	SAFETY		Meets UL Standard UL-458 (pending listing)		
COMPLIANCE	EMI	IVIC	Meets FCC Part 15(B), Class A		
ENVIRONMENT	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			
		- 30°C to 70°C / - 22°F to 158°F 236 x 373 x 115			
DIMENSIONS	(W X D X H), MM				
	(W X D X H), INCHES	9.29 x 14.7 x 4.53			
WEIGHT	KG		6.2		
	LBS		13.6		

NOTE: Specifications are subject to change without notice

12003-ST1000-112-124-148-0414