

Features:

- A microprocessor controls self-diagnosis and operation
- User-friendly LCM Module
- Can parallel with the utility AC to generate up to 4 KW
- Battery charger current 100A Max. @12VDC / 50A Max. @24VDC
- Provide 5A Max. second charger
- Built-in 25A rated bypass switch
- Power sharing function between charger and load
- Fan failure alarm with buzzer
- DIP switch and remote control management
- RS-232 and CAN BUS communication
- Dry contact for system alarm
- DC Input Protection: Reverse Polarity (Fuse) / Under Voltage / Over Voltage
- AC Input Protection: Short circuit / Under Voltage / Over Voltage
- AC Output Protection: Short Circuit / Overload / Over Temperature



MODEL		SB2000-112	SB2000-124	SB2000-212	SB2000-224
Output	Rated Power	2000W			
	Surge Power	Load 101% ~ 115% (3 Min) 4000W			
	Frequency	47 ~ 63Hz ±0.01% (User-selectable)			
	Output Voltage	115VAC (100 ~ 120VAC) ±5%		230VAC (200 ~ 240VAC) ±3%	
	Efficiency (Full Load)	> 84% (At DC 12V)	> 86% (At DC 24V)	> 85% (At DC 12V)	> 88% (At DC 24V)
	Short-Circuit Protection	Yes, Ipk			
	Waveform	Pure Sine Wave (THD < 5%)		Prue Sine Wave (THD < 3%)	
Input	Nominal Voltage	12VDC	24VDC	12VDC	24VDC
	Input Voltage Range	10.5 ~ 16VDC	21 ~ 32VDC	10.5 ~ 16VDC	21 ~ 32VDC
	Input Over-Voltage Protection	15 ~ 16VDC	30 ~ 32VDC	15 ~ 16VDC	30 ~ 32VDC
	Input Under-Voltage Protection	10.5 ~ 11.5VDC	21 ~ 23VDC	10.5 ~ 11.5VDC	21 ~ 23VDC
	No Load Current	6A	3A	6A	3A
	Stand-By Current	1.5A	0.75A	1.5A	0.75A
AC Input / Output Terminal	AC Input	50A Max.			
	AC Output	50A Max.			
	INV. AC Output	25A Max.			
Protection	BAT. Low Alarm	11VDC	22VDC	11VDC	22VDC
	BAT. Low Shutdown	10.5VDC	21VDC	10.5VDC	21VDC
	DC Input Protection	Reverse Polarity (Fuse) / Under Voltage / Over Voltage			
	AC Output Protection	Short Circuit / Overload / Over Temperature			
	AC Input Protection	30Amp Circuit Breaker			
	Temperature Protection	Shutdown (below -20°C above +50°C)			
	Battery Temperature Protection	By RJ-11 connector to battery temperature sensor			
DC Output	Charging Current Range	20 ~ 100A	10~50A	20 ~ 100A	10~50A
	ESB Charger Output	5A , 3-Stage charging capability			
	Max. Output Voltage	14.8VDC	29.6VDC	14.8VDC	29.6VDC
	Battery Temperature Compensation	-25mV per°C	-50mV per°C	-25mV per°C	-50mV per°C
	Bulk Voltage	14.4VDC	28.8VDC	14.4VDC	28.8VDC
	Absorption Voltage	14.25VDC	28.5VDC	14.25VDC	28.5VDC
	Float Voltage	13.5VDC	27.0VDC	13.5VDC	27.0VDC
	Note.	Charger Voltage @Battery Type Setting "Standard", Temperature@25°C			
AC Input	Nominal Voltage / Frequency	115VAC / 60Hz		230VAC / 50Hz	
	Input Voltage Range	90 ~ 130VAC		180 ~ 260VAC	
	Input Frequency Range	43 ~67Hz			
	Nominal Current	15A (@115VAC)		7.4A (@230VAC)	
	Efficiency (Full Load)	> 85%		> 87%	
	Power Factor Correction (PFC)	> 0.98 (40%Load)			
Signal & Control	LCD Panel	2-line LCD Panel			
	Remote Control Port	RJ-11			
	Dry Contact Terminal	By relay			

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Bypass Relay	Relay Specification	25Amp / 250VAC			
Environment	Working Temp.	Full Load	-25°C ~ 40°C		
		Power De-rating	50W / °C, 41 ~ 60°C		
	Storage Temp.	-30°C ~ 70°C			
	Working Humidity	0 ~ 93% RH Non-condensing			
Safety & EMS	Safety Standards	---		Certified EN 60950-1	
	EMC Standards	Certified FCC Class A		Certified EN 55022 Certified EN 55024 Certified EN 61000-3-2 Certified EN 61000-3-3 Certified EN 61000-4-2, 3, 4, 5, 6, 8, 11	
Others	Failure Indication	Buzzer alarm			
	Fan On / Off	Load and temperature control fan			
	Power Sharing Function	Inverter mode / Charger mode / Power sharing (Generator mains support function / Power support) / Charger Sharing			
	Ground Relay	Ground relay included for connection of neutral of inverter to ground only at inverter mode. Standard disable			
	Dimension (WxHxD)	331x155.8x464.8 mm / 13.031x6.134x18.299 inch			
	Packing	12.3kg; 1pcs / 13.3kg / 2.59CUFT			
	Application	Home and Office appliances, Portable Power Equipment, Vehicle, Yacht and Solar power systems...etc.			

Mechanical Drawings:

unit:mm [inch]

