

### Features:

- Parallel redundancy design for power expansion
- Multiple industrial applications that create 1Φ3 $\omega$  / 3Φ4 $\omega$  power systems
- Automatic master mechanism to eliminate single point failure and optimize reliability
- Built-in ATS and AC circuit breaker
- Optional STS module, transfer time less 4ms.
- RS-232 communication
- Input & output fully isolation
- Output voltage / power saving mode selectable by DIP switch or remote control (CR-10)
- Input Protection: Reverse Polarity (Fuse) / Under Voltage / Over Voltage
- Output Protection: Short Circuit / Overload / Over Temperature / Over Voltage

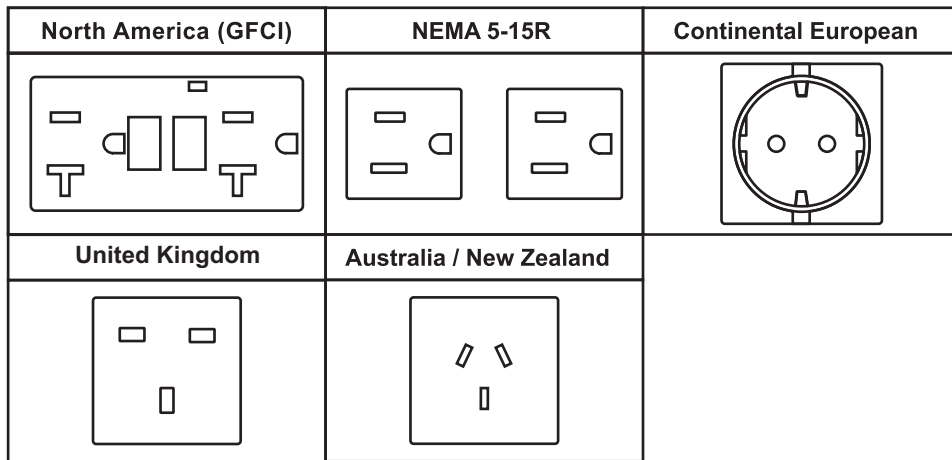


MODEL		SD2500-112	SD2500-124	SD2500-148	SD2500-212	SD2500-224	SD2500-248
Output	Rating Power	2500W (de-rating after 40°C, refer to de-rating curve)					
	Peak Power (3Sec.)	3000W					
	Surge Power (<0.2Sec.)	4000W					
	Waveform	Pure Sine Wave					
	Efficiency (Max.)	88%	89%	90%	88%	88%	90%
	Output Voltage (@rated VDC)	100 / 110 / 115 / 120VAC ±3%			200 / 220 / 230 / 240VAC ±3%		
	Output Frequency	50 / 60Hz ±0.1%					
	Total Harmonic Distortion (THD)	< 3% (@rated / VDC, linear load)					
DC Input	DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
	Voltage Range	10.0~16.0VDC	20.0~32.0VDC	40.0~64.0VDC	10.0~16.0VDC	20.0~32.0VDC	40.0~64.0VDC
	No load Power Consumption	@12VDC	@24VDC	@48VDC	@12VDC	@24VDC	@48VDC
	On Mode @ Save Mode	0.9A	0.35A	0.3A	1.1A	0.7A	0.4A
	On Mode @ No Load Mode	< 2.9A	< 1.4A	< 0.8A	< 3.6A	< 1.8A	< 1A
	Fuse	40Ax9	20Ax9	10Ax9	40Ax9	20Ax9	10Ax9
AC Input	AC Range	100 / 110 / 115 / 120VAC±12.5%			200 / 220 / 230 / 240VAC±12.5%		
	Frequency Selectable	50 / 60 Hz					
	Synchronous Frequency	47 -57 / 53 - 63 Hz					
	Circuit Breaker	35A			20A		
	Transfer Switch	Standard ATS : Inverter to utility AC:8~10ms.; Utility AC to inverter: 16~50ms. Optional STS mode : <4ms					
Protection	BAT.Low Alarm	10.5VDC	21.0VDC	42.0VDC	10.5VDC	21.0VDC	42.0VDC
	BAT.Low Shut-down	10.0VDC	20.0VDC	40.0VDC	10.0VDC	20.0VDC	40.0VDC
	BAT.Low Restart	12.5VDC	25.0VDC	50.0VDC	12.5VDC	25.0VDC	50.0VDC
	BAT.High Alarm	15.5VDC	31.0VDC	62.0VDC	15.5VDC	31.0VDC	62.0VDC
	BAT.High Shut-down	16.0VDC	32.0VDC	64.0VDC	16.0VDC	32.0VDC	64.0VDC
	BAT.High Restart	15.0VDC	30.0VDC	60.0VDC	15.0VDC	30.0VDC	60.0VDC
	Input Protection	Reverse Polarity (Fuse) / Under Voltage / Over Voltage Protection / AC over current (Breaker)					
	Output Protection	Short Circuit / Overload / Over Temperature / Over Voltage					
Environment	Working Temp.	-20 ~ +60°C; refer to SD2500 power de-rating curve					
	Storage Temp.	-40 ~ +70°C					
	Relative Humidity	Max. 90%, non-condensing					
Safety & EMC	Safety Standards	Meet UL 458			Certified EN60950-1		
	EMC Standards	Certified FCC Class B			Certified EN 55014, EN 61000-3-2, EN 61000-3-3 EN 61000-4-2, 3, 4, 5, 6, 11		
Control & Signal	LED Indicator	Input voltage level, output load level and faulty status					
	Remote control	CR-6, CR-8 and CR-10					
Others	Dimension (WxHxD)	283x128.4x436 mm / 11.146x5.056x17.165 inch					
	Weight	8 kg					
	Cooling	Load & Thermal control fan					
	Communication Port	RS-232 (RJ-11 type connector), Ethernet (optional)					

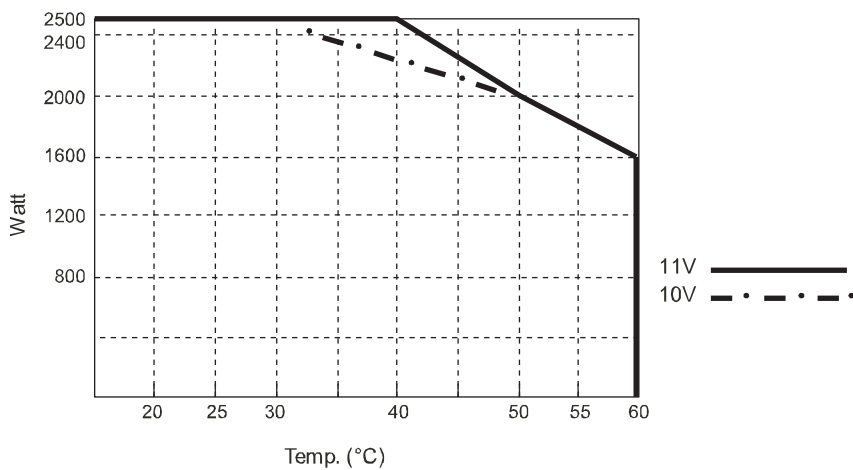
### LED Status:

Status	LED Signal
Power on	Red, Orange, Green
Normal	Green
Saving mode	Green (blinking)
O/P overload (100%~115%)	Red
O/P short circuit	Red
Over temperature	Red (blinking)
Shut down high battery	Red (blinking)
High battery	Orange
Low battery	Orange (blinking)
Shut down low battery	Red (blinking)
Fan failure	Red (blinking)
AC input	Green

### Output Socket:



### De-rating Curve:



### Mechanical Drawings:

Unit : mm [inch]

