

SI series (3500 W)

Pure Sine Wave Inverters



- Output voltage / power saving mode selectable by DIP switch or remote control (CR-10)
- Parallel redundancy design for power expansion
- RS-232 communication interface
- Input protection: reverse polarity (fuse) / under voltage, over voltage
- 1 phase 3 W / 3 phase 4 W for multiple industrial applications
- Automatic master mechanism to eliminate single point failure and optimize reliability
- Built-in ATS and AC circuit breaker
- Optional STS module, transfer time less than 4 ms.
- Input & output fully isolated

This new inverter series converts DC energy from solar modules into clean, stable AC power that is ideal for power demanding appliances. Phocos inverters are designed for high efficiency: Integrated advanced microprocessor technology combined with pure sine wave output makes them the perfect choice for use with high-end electronics and electrical equipment. Thanks to their low weight and

long lifespan, the SI series inverters are also ideal for mobile and outdoor applications (e.g. RVs, cars and also industrial applications). As a special, high performance benefit the THD (total harmonic distortion) of Phocos' true sine wave inverters is below 3%, thus providing superior efficiency. Overload, short circuit, DC over/under voltage and overheating protection are standard on all models.

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Type: SI3500	SI3500-148	SI3500-248
Rated power	3500 W (de-rating after 40°C, refer to de-rating curve)	
Surge power	6000 W (<0.2 s)	
Input	48 Vdc	
Operating voltage	40.0 to 64.0 Vdc	
Shut down low battery	40.0 Vdc	
Battery low voltage alarm	42.0 Vdc	
Overvoltage shut down	> 64 Vdc	
No load current draw	1.0 Adc	
Save mode max. current draw	0.5 Adc	
Output	100/110/115/120 Vac ± 3%	200/220/230/240 Vac ± 3%
Output socket	Continental European (Schuko), Australia / New Zealand, UK	
Efficiency at rated Vdc, full load	91%	
AC regulation	100/110/115/120 Vac +/- 12.5%	200/220/230/240 Vac +/- 12.5%
Frequency switch select.	50/60 Hz	
Protections	Overload, short circuit, DC over/under voltage, over temperature, AC over current (breaker)	
Waveform	Pure sine wave	
Power factor cos Ø	> 0.8	
Operating temperature	-20° C to + 60° C; refer to SI3500 power de-rating curve	
Storage temperature	-40° C to + 70° C	
Max. humidity	90%, non-condensing	
Safety standard	UL 458	EN60950-1
Cooling	Load and thermal control fan	
Reverse polarity protection	By fuse	
Remote control unit (optional)	CR-6, CR-8 and CR-10	
Dimensions	283.0 x 128.4 x 496.0 mm	
Weight	10 kg	