SI-ECO Series (500 W)

Pure Sine Wave Inverters

- True sine wave output (THD<2%)
- Power ON-OFF remote control
- Fully isolated input & output
- Load controlled cooling fan
- Advanced microprocessor
- 50/60 Hz switch selectable output frequency
- Input reverse polarity/under voltage/over voltage protections
- Output short-circuit/overload/over temperature protections
- Tri-color indicators display output load level & failure status
- CE, RoHS, Emark-approved
- Type of protection: IP20
- Automatic re-start in case of overload: Every 60 s approx.

This inverter 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-ECO 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 2%, thus providing superior efficiency. Overload, short-circuit, DC over/under voltage and overheating protection are standard on all models.

www.phocos.com

Phocos AG
Magirus-Deutz-Str. 12
89077 Ulm, Germany

Phone +49 731 9380688-0
Fax +49 731 9380688-50

SI-ECO Series (500 W)

Pure Sine Wave Inverters

Type	SI-ECO-500			
	-112	-124	-212	-224
AC voltage	100/110/120 VAC		220/230/240 VAC	
Rated power	500 W			
Surge power	1500 W (for a few seconds)			
Waveform	True sine wave (THD <2%)			
Frequency	50/60 Hz ± 0.5 Hz selectable by DIP switch			
AC regulation	±5%			
Sandard receptacles	A, B, C, D, E, F, G, H, I, GFCI (optional at extra cost)			
USB output port	5 V, 2.1 A			
LED indicator	A: Output load level: <20%-off, between 20% and 50% -green, <90%-orange, >90%-red; B: Green for power on, red for protection/failure			
Sleeping mode setting (DIP switch)	S4-frequency 50/60Hz, S3-15% output load, S2-10% output load, S1-5% load setting			
No load current draw	< 0.6 A	< 0.5 A	< 0.6 A	< 0.5 A
DC voltage	12 V	24 V	12 V	24 V
Voltage range (VDC)	10.5~15.0	21.0~30.0	10.5~15.0	21.0~30.0
Efficiency (typ.)	≥89.0%	≥90.0%	≥89.0%	≥90.0%
Fuse	30 A*3	15 A*3	30 A*3	15 A*3
Remote control	RC60 (optional)			
Battery low voltage alarm (VDC)	11.0 ± 0.25	22.0 ± 0.5	11.0 ± 0.25	22.0 ± 0.5
Battery low shut down (VDC)	10.5 ± 0.25	21.0 ± 0.5	10.5 ± 0.25	21.0 ± 0.5
Overload	Shutdown			
Over voltage (VDC)	15.5 ± 0.5	31.0 ± 1.0	15.5 ± 0.5	31.0 ± 1.0
Overtemperature	Shut-off output voltage, recover automatically after temperature goes down			
Short-circuit	Shut-off output voltage, restart to recover			
Battery reverse polarity	By fuse open			
Earth leakage	Yes			
Reset voltage after LVS (VDC)	11.8~12.8	23.6~25.6	11.8~12.8	23.6~25.6
Operating temperature	0° C to + 40° C			
Max. humidity	20-90% RH, non-condensing			
Storage temperature & humidity	-30° C to + 70° C, 10-95%			
Safety standards	UL458 (only for GFCI receptacle)			
Isolation resistance	Input-output: 1000 Ohms/500 VDC			
EMC	Compliance to EN61000-6-3:2007 + A1:2011, EN61000-6-1:2007			
LVD	Compliance to EN60950-1:2006 + A11:2009 + A1: 2010 + A12:2011			
Dimensions	255 x 186 x 90 mm			
Cooling fan	Controlled by load			
Weight	1.5 kg			

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