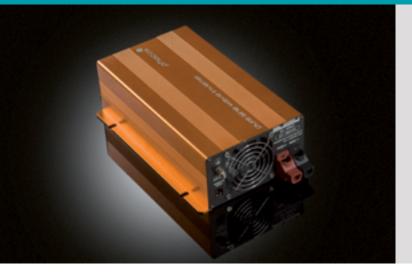


SI-ECO Series (700 W)

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
- 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.

Datasheet_SI-ECO700_1/2_e_2018-02-14_Subject to change without notice



SI-ECO Series (700 W) Pure Sine Wave Inverters

Туре	SI-ECO-700				
	-112	-124	-212	-224	
AC voltage	100/110/12	O VAC	220/230/240	VAC	
Rated power	700 W				
Surge power	2100 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%				
Standard 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-frequenc	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	Shuts off output voltage, recovers automatically after temperature goes down				
Short-circuit	Shut-off output voltage, restart to recover				
Battery reverse polarity	Fuse strips				
Earth leakage	Yes	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	I/P-O/P: 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 b	Controlled by load			
Weight	2.2 kg				

Datasheet_SI-ECO700_2/2_e_2018-02-14_Subject to change without notice