

SI series (350 – 1500 W)

Pure Sine Wave Inverters



- · Input/output fully isolated for more application flexibility
- · Input and output protected against over and under voltage
- "Low power saving mode" < 1 W (350 W) increases system efficiency and reduces costs
- Advanced microprocessor optimises operation processes while reducing energy consumption
- Status indicator for operation verification
- Usual home appliances (supplied from AC mains) can be integrated in a small solar home system (12-48 voltage range)
- Certified for mobile applications (RVs, cars and many more), certification class B

This new product line of inverters converts DC energy from solar modules into clean, stable AC power that is ideal for powering 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 is also ideal for mobile

and outdoor applications (e.g. RVs, cars and many more). An extra advantage: THD < 3 %.

As a special, high performance benefit Phocos True Sine Wave Inverters offer a less than 3 per cent THD (total harmonic distortion), providing top performance and superior efficiency. Overload, short circuit, DC over/under voltage and overheating protection are standard on all models.

Type: Model - SI 350	SI350-12110	SI350-12230	SI350-24110	SI350-24230				
Rated Power	350 W							
Surge Power	700 W (350 - 400 W, 30 s) (400 - 700 W, 2 s)							
Input	12 Vdc		24 Vdc					
Voltage range	10.5 to 16 Vdc		21.0 to 32 Vdc					
Shut down low battery	10.5 Vdc		21.0 Vdc					
Battery Low Voltage Alarm	11.0 Vdc		22.0 Vdc					
Shut down high battery	16 Vdc		32 Vdc					
No load current draw (A) @ nom. Voltage	< 0.65	< 0,9	< 0.32	< 0.5				
Save Mode (A) min. @ nom. Voltage	< 0.09		< 0.06					
Output	110 Vac¹	230 Vac ²	110 Vac ¹	230 Vac ²				
Output Socket	Universal	Universal	Universal	Universal				
Efficiency at rated Vdc, full load %	90	91	91	93				
Dimensions	210 x 160 x 73 mm							
Weight	1.6 kg							

Note: Due to the high current demanded by inverters, they should be directly connected to the battery terminals. Selectable:

Datasheet_SI series_1/2_e_2012-03-27_Subject to change without notice

¹ 100/110/115/120 Vac ± 5%

² 200/220/230/240 Vac ± 5%



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Type: Model - SI 700	SI700-12110	SI700-122	30 SI700-24110	SI700-24230	SI700-48110	SI700-48230				
Rated Power	700 W				•					
Surge Power	700 - 1400 W, 6	700 - 1400 W, 6 s								
Input	12 Vdc	12 Vdc		24 Vdc		48 Vdc				
Voltage range	10.3 to 15.8 Vo	10.3 to 15.8 Vdc		20.6 to 31.6 Vdc		41.2 to 61.2 Vdc				
Shut down low battery	10.3 Vdc	10.3 Vdc		20.6 Vdc		41.2 Vdc				
Battery Low Voltage Alarm	10.6 Vdc	10.6 Vdc		21.2 Vdc		42.0 Vdc				
Shut down high battery	15,8 Vdc	15,8 Vdc		31.6 Vdc		61.2 Vdc				
No load current draw (A)	< 1.25	< 1.25 < 1.2		< 0.64 < 0.6		< 0.28				
Stand-by current draw (A)	< 0.25	< 0.25		< 0.15						
Output	110 Vac	230 Vac	110 Vac	230 Vac	110 Vac	230 Vac				
Output Socket	Universal	Universal	Universal	Universal	Universal	Universal				
Efficiency at rated Vdc, full load %	89	91	92	91	93	94				
Dimensions	310 x 192 x 75	310 x 192 x 75 mm								
Weight	2.7 kg	2.7 kg								
Type: Model - SI 1500	SI1500-24110	SI1500-24110 SI15		SI1500-48	110	SI1500-48230				
Rated Power	1500 W									
Surge Power	1650 - 1750 W	1650 - 1750 W, 180 s; 1750 - 3000 W, 6 s								
Input	24 Vdc	24 Vdc			48 Vdc					
Voltage range	20.6 to 31.6 Vo	20.6 to 31.6 Vdc			41.2 to 61.2 Vdc					
Shut down low battery	20.6 Vdc	20.6 Vdc			41.2 Vdc					
Battery Low Voltage Alarm	21.2 Vdc			42.0 Vdc	42.0 Vdc					
Shut down high battery	31.6 Vdc	31.6 Vdc			61.2 Vdc					
No load current draw (A)	< 0.75	< 0.75		< 0.4		< 0.4				
Stand-by current draw (A)	< 0.15	< 0.15			< 0.09					
Output	110 Vac	110 Vac 230		0 Vac 110 Vac		230 Vac				
Output Socket	Universal	Universal Uni		versal Universal		Universal				
Efficiency at rated Vdc, full load %	92	92 90		93		94				
Dimensions	420 x 205 x 90 mm									
Weight	4.8 kg									
All inverters										
AC Regulation	+/- 3%	+/- 3%								
Frequency swith select. (Hz)	50/60 +/-0.1%									
Protections	Overload, Short Circuit, DC over/under Voltage, over Temperature									
Waveform	True Sine Wave									
Power factor cos Ø	-90° to +90°									
Operating temperature	-20° C to + 40° C									
Storage temperature	-30° C to + 70° C									
Max. humidity operating	90%	90%								
Safety Standards	Meet UL458	Meet UL458								
Cooling	Load/tempera	Load/temperature controlled fan								
Reverse polarity protection	No, will result	No, will result in permanent damage								
Remote control unit	Si-RSW (not fo	r model SI 3	50) for 12 V and 24 V	/ Ories 2/2 e 2012-0						