

SOLTARO INVERTER

Mini-4G Single Phase Inverter



Class Leading Features

- Over 97% Max. efficiency
- Single MPPT design with precise MPPT algorithm
- High switching frequency technology - Smaller, Smarter
- DRM integrated, fully comply with AS4777.2:2015
- IP65, visually pleasing for domestic environment
- RS 485, WiFi/GPRS (optional) interface
- Numerous protection functions
- WiFi and monitoring, smart phone app available
- 5 year standard warranty, 10 year premium warranty



Datasheet

Model	Soltaro Mini 1000-4G	Soltaro Mini 1500-4G	Soltaro Mini 2000-4G	Soltaro Mini 3000-4G
Energy source	PV			
Input Side (DC)				
Max. input power (kW)	1.2	1.8	2.3	3
Max. Input voltage (V)	450		500	
Start up input voltage (V)	60			
MPPT voltage range (V)	50-400			
Max. input current (A)	11			
MPPT number/ Max input strings	1/1			
Output Side (AC)				
Rated output power (kW)	1.0	1.5	2	3
Max. transient power (kW)	1.1	1.7	2.2	3.3
Rated grid voltage (V)	220/230			
Grid voltage range (V)	160-285 (adjustable)			
Rated grid frequency (Hz)	50/60			
Operating phase	Single			
Max. output current (A)	5.2	8.1	10.5	15.7
Power factor	0.8 leading... 0.8 lagging			
Total harmonic distortion (THDi)	Total THDi<1.5%			
DC injection current (mA)	<20			
Grid frequency range (Hz)	47-52 or 57-62 (adjustable)			
Efficiency				
Max. efficiency	97.2%		97.5%	
EU efficiency	96.5%		96.8%	
MPPT efficiency	99.9%			
Protection				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Output over voltage protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Surge protection	Yes			
Grid monitoring	Yes			
Islanding protection	Yes			
Temperature protection	Yes			
General Data				
Dimensions (mm)	270W x 433H x 105D			
Weight (kg)	4.8			
Topology	Transformerless			
Self consumption	<1W (night)			
Operating ambient temp. range	-25°C ~ 60°C			
Ingress protection	IP65			
Noise emission (typical)	<30 dBA			
Cooling concept	Natural convection			
Max. operating altitude	4000m			
Designed lifetime	>20 years			
Grid Connection standard	EN50438,G83/2,AS4777,VDE0126-1-1,IEC61727			
Relative humidity	0 ~ 100%			
Safety/EMC standard	IEC62109-1/-2,AS3100,EN61000-6-1,EN61000-6-3			
Features				
DC connection	Original MC4 connector			
AC connection	IP67 rated plug			
Display	LCD, 2 x 20 Z			
Interface	RS485, WiFi/GPRS (optional)			
Warranty	5-10 years			