

Solis-mini-(1000-3000)-4G

Solis Mini Series Inverters



360 degree

Features:

- ▶ Max. efficiency 97.5%
- ▶ Super high frequency switching technology
- ▶ Wide voltage range and low startup voltage
- ▶ Precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Compact and lightweight
- ▶ Friendly and adaptable connection to the grid



Model:

Solis-mini-1000-4G Solis-mini-1500-4G
Solis-mini-2000-4G Solis-mini-2500-4G
Solis-mini-3000-4G

Datasheet

Model Name	Solis-mini-1000-4G	Solis-mini-1500-4G	Solis-mini-2000-4G	Solis-mini-2500-4G	Solis-mini-3000-4G
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Input DC

Recommended max. PV power	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	60 V		90 V		
MPPT voltage range	50-500 V		80-500 V		
Max. input current	11 A				
Max. short circuit current	17.2 A				
MPPT number/Max. input strings number	1/1				

Output AC

Rated output power	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Max. apparent output power	1.1 kVA	1.7 kVA	2.2 kVA	2.8 kVA	3.3 kVA
Max. output power	1.1 kW	1.7 kW	2.2 kW	2.8 kW	3.3 kW
Rated grid voltage	1/N/PE, 220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	4.5 A / 4.3 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13 A
Max. output current	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
DC injection current	<0.5% I _n				

Efficiency

Max. efficiency	97.2%		97.5%		
EU efficiency	96.5%		96.8%		

Protection

DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Integrated DC switch	Yes				

General Data

Dimensions (W*H*D)	310*373*160 mm				
Weight	7.4 kg		7.7 kg		
Topology	Transformerless				
Self consumption (night)	<1 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP65				
Noise emission (typical)	<20 dB(A)				
Cooling concept	Natural convection				
Max. operation altitude	4000 m				
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)				
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4				

Features

DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	LCD				
Communication	RS485, Optional: DLS-W, DLS-G				

(1) Activation required.