

Solis Three Phase Inverter



Leading Features

- ▶ Three phase output
- ▶ Over 97.5% Max. efficiency
- ▶ 200V – 800V input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Compact and light design for one-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions
- ▶ WiFi and monitoring app available
- ▶ 5 year standard, 8 year premium warranty, or extended options



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Data Sheet



Model	Solis-10K
Input Side	
Max. DC input voltage	1000V
Start-up DC input voltage	330V
MPPT operating range	300-800V
Max. DC input current	18A+18A
Number of MPP/Max strings per MPPT	2/2
Output Side	
Rated output power	10kVA
Max. transient power	11kVA
Rated AC grid voltage	380V/400V/480V
AC grid voltage range	313~470V(adjustable), based on local requirement
Operating phase	three
Rated AC grid output current	15.2A/14.5A/12.0A
Max. AC output current	16.7A/16.0A/13.2A
Output power factor	0.8lagging/0.9lagging/1 adjustable
Grid current THD	Total THD<4%
DC injection current	<20mA
Rated grid frequency	50/60Hz
Efficiency	
Max. efficiency	>98%
Euro efficiency	>96.5%
MPPT efficiency	>99.9%
Protection	
DC reverse-polarity protection	Yes
AC short circuit protection	Yes
AC output overcurrent protection	Yes
Output overvoltage protection-Varistor	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Size	430W*600H*220D(mm)
Weight	27kg
Topology	Transformerless
Internal consumption	<1W(Night)
Running temperature	-25°C~60°C
Ingress protection	IP65
Operating range utility frequency (Hz)	47-52 or 57-62(adjustable)
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max.operating altitude without derating	2000m
Designed lifetime	>20 years
Utility monitoring	Islanding protection V_{AC} , F_{AC} in accordance with UL 1741, G59/3, AS4777, VDE 0126-1-1
Operating surroundings humidity	0~95%
EMC	EN61000-6-1:2007 EN61000-6-3:2007
Features	
DC connection	MC-4 mateable
AC connection	IP67 rated plug
Display	LCD, 2 x 20 Z.
Interface	RS 485, WiFi/GPRS (optional)
Warranty	5~10 Years