

Solis Three Phase Inverter



Leading Features

- ▶ Three phase output
- ▶ Over 98% Max. efficiency
- ▶ 7" LCD Display
- ▶ Ultra wide input voltage range
- ▶ 4x 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
- ▶ 10 years standard warranty

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Datasheet

Model	Solis-20K	Solis-25K	Solis-30K
Energy source	PV		
Input Side			
Max. input power(kW)	23	28.7	34.5
Max. input voltage(V)	1000		
Start-up input voltage(V)	330		
MPPT voltage range(V)	200-800	300-800	
Max. input current(A)	18+18+18+18		
MPPT number/Max. input strings number	4/2		
Output Side			
Rated output power(kW)	20	25	30
Max. transient power(kW)	22	27.5	33
Rated AC grid voltage(V)	380/400		
AC grid voltage range(V)	313-470(adjustable)		
Operating phase	three		
Max. AC output current(A)	30.4	40	45.6
Output power factor	>0.99		
Grid current THD	Total THD<4%		
DC injection current(mA)	<20		<50
Rated grid frequency(Hz)	50/60		
Efficiency			
Max. efficiency	>98%		
Euro efficiency	>97.3%		
MPPT efficiency	>99.9%		
Protection			
Temperature protection	Yes		
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		
Integrated DC switch	Optional		
General data			
Size(mm)	520W*676H*347D		
Weight(kG)	47.0	50.0	
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	Forced air cooling	
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		
Interface	RS 485, WiFi/GPRS (optional)		
Warranty	10 Years		