

Solis Three Phase Inverter



## Leading Features

- ▶ Three phase output
- ▶ Over 98.2% Max. efficiency
- ▶ Ultra wide 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
- ▶ 10 years standard warranty

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# Datasheet

Model	Solis-6K	Solis-10K	Solis-15K
Energy source	PV		
<b>Input Side</b>			
Max. input power(kW)	6.9	11.5	17.2
Max. input voltage(V)	1000		
Start-up input voltage(V)	330		
MPPT voltage range(V)	200-800		
Max. input current(A)	15+15	18+18	
MPPT number/Max. input strings number	2/2	2/4	
<b>Output Side</b>			
Rated output power(kW)	6	10	15
Max. transient power(kW)	6.6	11	15
Rated AC grid voltage(V)	380/400/480		
AC grid voltage range(V)	313-470(adjustable)		
Operating phase	three		
Rated AC grid output current(A)	9.1/8.7/7.2	15.2/14.5/12.0	22.8/21.7/18.0
Max. AC output current(A)	10.5/10.0/7.9	16.7/16.0/13.2	25.1/23.1/19.8
Output power factor	>0.99		
Grid current THD	Total THD<3%		
DC injection current(mA)	<20		<50
Rated grid frequency(Hz)	50/60		
<b>Efficiency</b>			
Max. efficiency	>98.2%		>98.3%
Euro efficiency	>97.3%		>97.5%
MPPT efficiency	>99.9%		
<b>Protection</b>			
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		
<b>General data</b>			
Size(mm)	430W*600H*220D		
Weight(kg)	27.0		30.0
Topology	Transformerless		
Self consumption	<1W (Night)		
Operating ambient temperature range	-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. operation altitude	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; IEC62109-1/2; AS3100;NB/T 32004		
<b>Features</b>			
DC Connection	MC-4 mateable		
AC Connection	IP67 rated plug		
Display	LCD, 2 x 20 Z.		
Interface	RS 485, WiFi/GPRS (optional)		
Warranty	10 Years		