

Solis Three Phase Inverter



Leading Features

- ▶ Three phase output
- ▶ Over 98.4% Max. efficiency
- ▶ 200V-800V input voltage range
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ 7.0" LCD color screen display(optional)
- ▶ Compact and light design, 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	Solis-36K-HV	Solis-40K-HV
Energy source	PV				
Input Side					
Max. input power(kW)	23	28	34	41	45
Max. input voltage(V)	1000				
Start-up input voltage(V)	350				
MPPT voltage range(V)	200-800				
Max. input current(A)	18+18+18+18				
MPPT number/Max. input strings number	4/8				
Output Side					
Rated output power(kW)	20	25	30	36	40
Rated AC grid voltage(V)	380/400			480	
AC grid voltage range(V)	304-460(adjustable)			384-576(adjustable)	
Operating phase	three				
Rated AC output current(A)	30.3/28.7	37.9/36.1	45.5/43.3	43.3	48.1
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	>98.6%				
Euro efficiency	>98.3%				
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)	530W*688H*356.5D				
Weight(kG)	57.2	58.2			
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)	<30dBA				
Cooling concept	Natural convection				
Max.operating altitude without derating	4000m				
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	0~100%				
EMC	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3,				
Features					
DC Connection	MC-4 mateable				
AC Connection	Terminal connectors				
Display	LCD, 2 x 20 Z.				
Interface	RS 485, WiFi/GPRS (optional)				
Warranty	10 Years				