

Three

20kW
-
40kW

Solis Three PV Inverter

- ▶ Three phase output
- ▶ Over 98.8% Max. efficiency
- ▶ 200V-1000V input voltage range
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ RS485, WiFi/GPRS (optional) interface
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Multiple protection functions
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-20K

Solis-25K

Solis-30K

Solis-33K

Solis-36K-HV

Solis-40K-HV

Features:

Fanless
Cooling
Concept

Four
MPPT

7"
LCD

WiFi/GPRS
Real time
monitoring

Available on the iPhone
App Store
Available on the iPhone
App Store

IP65

Datasheet

Model	Solis-20K	Solis-25K	Solis-30K	Solis-33K	Solis-36K-HV	Solis-40K-HV
Energy Source	PV					
Input Side(DC)						
Max. DC input power(kW)	23	28	34	36	41	48
Max. DC input voltage(V)	1000				1100	
Start-up voltage(V)	350					
MPPT voltage range(V)	200-800				200-1000	
Max. input current(A)	18A+18A+18A+18A					
MPPT number/Max input strings number	4/8					
Output Side (AC)						
Rated output power(kW)	20	25	30	33	36	40
Max. apparent output power(kVA)	22	27.5	33	33	40	44
Max. output power(kW)	22	27.5	33	33	40	44
Rated grid voltage(V)	400				480	
Grid voltage range(V)	304-460				384-576	
Rated grid frequency(Hz)	50/60					
Operation phase	Three					
Rated grid output current(A)	28.7	36.1	43.3	47.8	43.3	48.1
Max. output current(A)	33.3	41.7	50	50	47.8	53
Power Factor (at rated output power)	0.8...1...0.8					
THDi (at rated output power)	<3%					
DC injection current(mA)	<50					
Grid frequency range(Hz)	47-52 or 57-62					
Efficiency						
Max. efficiency	98.6%	98.6%	98.6%	98.7%	98.8%	98.8%
EU efficiency	98.3%/98.3%	98.3%/98.3%	98.3%/98.3%	98.3%/98.3%	98.4%/98.4%	98.4%/98.4%
MPPTefficiency	99.9%					
Protection						
DC reverse-polarity protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
Output over voltage protection	Yes					
Insulation resistance monitoring	Yes					
Residual current detection	Yes					
Surge protection	Yes					
Islanding protection	Yes					
temperature protection	Yes					
Integrated DC switch	Optional					
General Data						
Dimensins(mm)	530W*700H*356.5D (mm)					
Weight(kg)	57.2	58.2				
Topology	Transformerless					
Self consumption (night)	<1W(Night)					
Operating ambient temperature range	-25-60℃					
Ingress protection	IP65					
Noise emission{typical}	<30 dBA					
Cooling concept	Natural convection					
Max.operation altitude	4000m					
Designed lifetime	>20years					
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727					
Relative humidity	0-100%					
Safty/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3					
Features						
DC connection	MC-4mateable					
AC connection	Terminal connectors					
Display	7.0"LCD color screen display					
Communication connections	4 pins RS485 connector , 2 RJ45 connector					
Warranty	5 years standard (extend to 20 years)					