

# 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-30K-MX

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

Model	Solis-20K	Solis-25K	Solis-30K	Solis-33K	Solis-36K-HV	Solis-40K-HV	Solis-30K-MX
Energy Source	PV						
<b>Input Side(DC)</b>							
Max. DC input power(kW)	23	28	34	36	41	48	34
Max. DC input voltage(V)	1000			1100			1000
Start-up voltage(V)	350						
MPPT voltage range(V)	200-800			200-1000			200-800
Max. input current(A)	18A+18A+18A+18A						
MPPT number/Max input strings number	4/8						
<b>Output Side (AC)</b>							
Rated output power(kW)	20	25	30	33	36	40	29.99
Max. apparent output power(kVA)	22	27.5	33	33	40	44	32.99
Max. output power(kW)	22	27.5	33	33	40	44	32.99
Rated grid voltage(V)	400			480			400
Grid voltage range(V)	304-460			384-576			304-460
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	43.3
Max. output current(A)	33.3	41.7	50	50	47.8	53	50
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						
<b>Efficiency</b>							
Max. efficiency	98.6%	98.6%	98.6%	98.7%	98.8%	98.8%	98.6%
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%	98.3%/98.3%
MPPTefficiency	99.9%						
<b>Protection</b>							
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						
<b>General Data</b>							
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°C						
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						
<b>Features</b>							
DC connection	MC-4mateable						
AC connection	Terminal connectors						
Display	7.0"LCD color screen display						
Communication connections	4 pins RS485 connector , 2 RJ45 connector						