

# Solis-(40-60)K,Solis-(50-60)K-HV

## Solis Three Phase Inverters



### Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.8% Max. efficiency
- ▶ High precision, high speed MPPT algorithm
- ▶ Four MPPT inputs each rated at 28.5A<sub>dc</sub>, compatible with high power modules
- ▶ Compact and light weight design for easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan



### Model:

400V: Solis-40K Solis-50K

480V: Solis-50K-HV Solis-60K-HV

## Datasheet

Model Name	Solis-40K	Solis-50K	Solis-50K-HV	Solis-60K-HV
<b>Input DC</b>				
Max. DC input power(kW)	53	67	67	80
Max. DC input voltage(V)	1100			
Nominal DC voltage(V)	600		720	
Start-up voltage(V)	200			
MPPT voltage range(V)	200-1000			
Max. input current(A/B/C/D)	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A
Max. Short Circuit current for each MPPT	34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A	34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A
MPPT number/Max input strings number	4/8	4/12	4/8	4/12
<b>Output AC</b>				
Rated output power(kW)	40	50	50	60
Max. apparent output power(kVA)	44	55	55	66
Rated grid voltage(V)	400		480	
Rated grid frequency(Hz)	50/60			
Rated grid output current(A)	58	72.2	60.2	72.2
Max. output current(A)	66.9	83.3	66.2	80
Power Factor (at rated output power)	0.8leading ... 0.8lagging			
THDi (at rated output power)	<3%			
<b>Efficiency</b>				
Max. efficiency	98.8%			
EU efficiency	98.4%			
MPPT efficiency	99.9%			
<b>Protection</b>				
DC reverse-polarity protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Surge protection	Yes			
Islanding protection	Yes			
Integrated DC switch	Optional			
<b>General Data</b>				
Dimensions(mm)	630W*700H*357D			
Weight (kg)	61	63	61	63
Topology	Transformerless			
Self consumption (night)	<1W (Night)			
Operating ambient temperature range	-25~60°C			
Relative humidity	0~100%			
Ingress protection	IP65			
Noise emission(typical)	< 30 dBA	< 60 dBA	< 30 dBA	< 60 dBA
Cooling concept	Natural convection	Intelligent redundant fan-cooling	Natural convection	Intelligent redundant fan-cooling
Max. operation altitude	4000m			
Grid connection standard	EN50438, G99, AS4777, VDE0126-1-1, IEC61727, IEC 62116			
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T 32004			
<b>Features</b>				
DC connection	MC4			
AC connection	OT Terminal connectors			
Display	LCD, 2×20 Z.			
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block			
Monitoring	WiFi or GPRS			
Warranty	5 years (extend to 20 years)			