

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, 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
Input DC				
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
Output AC				
Rated output power(kW)	40	50	50	60
Max. apparent output power(kVA)	44	55	55	66
Rated grid voltage(V)	400			
Rated grid frequency(Hz)	50/60			
Operation phase	Three Phase			
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%			
Efficiency				
Max. efficiency	98.8%			
EU efficiency	98.4%			
MPPT efficiency	99.9%			
Protection				
DC reverse-polarity protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Surge protection	Yes			
Islanding protection	Yes			
Integrated DC switch	Optional			
General Data				
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			
Features				
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)			