

Solis-(25-40)K-5G, Solis-(40-50)K-HV-5G

Solis 5G Three Phase Inverters



Features:

- ▶ 4 MPPT design with precise MPPT algorithm, effectively reducing string mismatch
- ▶ 8 strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ 30% DC overload, 13A input for each PV string
- ▶ Over 98.8% Max. efficiency
- ▶ 200V-1000V MPPT voltage range-ultra low startup
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design, longer lifespan
- ▶ RS485/ Wifi/ GPRS interface integration, remote upgrade supported



Model:

- 400V: Solis-25K-5G Solis-30K-5G
 Solis-33K-5G Solis-36K-5G
 Solis-40K-5G
 480V: Solis-40K-HV-5G Solis-50K-HV-5G

Datasheet

Model	Solis-25K-5G	Solis-30K-5G	Solis-33K-5G	Solis-36K-5G	Solis-40K-5G	Solis-40K-HV-5G	Solis-50K-HV-5G
Input DC							
Max. DC input power(kW)	33	39	43	47	52	52	65
Max. DC input voltage(V)				1100			
Start-up voltage(V)				180			
Operating MPPT voltage range(V)				200-1000			
Max. input current(A)				26A/26A/26A		26A/26A/26A/26A	
Max. Short Circuit current for each MPPT(A/B/C/D)				40A/40A/40A		40A/40A/40A/40A	
MPPT number/Max input strings number				3/A:2; B:2; C:2		4/A:2; B:2; C:2; D:2	
Output AC							
Rated output power(kW)	25	30	33	36	40	40	50
Max. apparent output power(kVA)	27.5	33	36.3	39.6	44	44	55
Max. output power(kW)	27.5	33	36.3	39.6	44	44	55
Rated grid voltage(V)				400			480
Rated grid frequency(Hz)				50/60			
Grid frequency range(Hz)				47-52 or 57-62			
Operation phase				3/N/PE			
Rated grid output current (A)	36	43.3	47.6	51.9	57.7	48.1	60.1
Max. output current(A)	41.8	50.2	55.1	60.2	66.9	53	66.2
Power Factor (at rated output power)				0.8leading ... 0.8lagging			
THDi (at rated output power)				<3%			
DC injection current				<0.5%In			
Efficiency							
Max. efficiency				98.8%			
CEC efficiency				98.3%			
MPPT efficiency				>99.5%			
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				DC Type II/ AC Type II			
Grid monitoring				Yes			
Islanding protection				Yes			
temperature protection				Yes			
Integrated DC switch				Optional			
Strings monitoring				Yes			
Anti-PID				Optional			
General Data							
Dimensions(mm)				647W*629H*252D			
Weight(kg)				45			
Topology				Transformer less			
Self consumption (night)				<1W (Night)			
Operating ambient temperature range				-25~60° C			
Relative humidity				0~100%			
Ingress protection				IP65			
Noise emission[typical]				<30 dBA			
Cooling concept				Natural convection			
Max.operation altitude				4000m			
Designed lifetime				>20years			
Grid connection standard				EN50438, G99, AS4777, VDE0126-1-1, IEC61727, VDE4105(2018)			
Safety/EMC standard				IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-3,			
Features							
DC connection				MC-4			
AC connection				Terminal board			
Display				LCD, 2×20 Z.			
Communication connections				4 pins RS485 connector			
Monitoring				WiFi or GPRS			
Warranty				5/ 10/ 15/ 20 Years			