

Solis-(15-23)K-LV-5G

Solis Three Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.8%
- ▶ Wide voltage range and low startup voltage
- ▶ 3 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ 130% DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V curve scan
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design, longer lifespan
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Intergrated Export Power Manager (EPM)



Model:

220V: Solis-15K-LV-5G Solis-20K-LV-5G
Solis-23K-LV-5G

Datasheet

Model Name	Solis-15K-LV-5G	Solis-20K-LV-5G	Solis-23K-LV-5G
Input DC			
Recommended max. PV power	19.5kW	26kW	30kW
Max. input voltage	1100V		
Rated voltage	600V		
Start-up voltage	180V		
MPPT voltage range	200-1000V		
Max. input current	26A/26A/26A		
Max. short circuit current	40A/40A/40A		
MPPT number/Max. input strings number	3/6		
Output AC			
Rated output power	15kW	20kW	23kW
Max. apparent output power	16.5kVA	22kVA	25kVA
Max. output power	16.5kW	22kW	25kW
Rated grid voltage	3/PE, 220V		
Rated grid frequency	50/60Hz		
Rated grid output current	39.4A	52.5A	60.4A
Max. output current	43.3A	57.7A	65A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.8%		
EU efficiency	98.3%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Anti-PID function	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	647*629*252 mm		
Weight	45kg		
Topology	Transformerless		
Self consumption	<1W (night)		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP65		
Cooling concept	Natural convection		
Max. operation altitude	4000m		
Grid connection standard	IEC 61727, IEC 62116, C10/11, VDE 4105, IEEE 1547		
Safety/EMC standard	IEC 62109-1/-2, IEC62116, EN 61000-6-1/-2/-3/-4, IEC 61000-3-11/12, UL 1741		
Features			
DC connection	MC4 connector		
AC connection	OT terminal		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		