

# 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
- ▶ 150% 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
<b>Input DC</b>			
Recommended max. PV power	23 kW	30 kW	35 kW
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	200-1000 V		
Max. input current	26 A / 26 A / 26 A		
Max. short circuit current	40 A / 40 A / 40 A		
MPPT number/Max. input strings number	3/6		
<b>Output AC</b>			
Rated output power	15 kW	20 kW	23 kW
Max. apparent output power	16.5 kVA	22 kVA	25 kVA
Max. output power	16.5 kW	22 kW	25 kW
Rated grid voltage	3/PE, 220 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	39.4 A	52.5 A	60.4 A
Max. output current	43.3 A	57.7 A	65 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
<b>Efficiency</b>			
Max. efficiency	98.8%		
EU efficiency	98.3%		
<b>Protection</b>			
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		
Integrated PID recovery	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>		
Integrated DC switch	Optional		
<b>General Data</b>			
Dimensions (W*H*D)	647*629*252 mm		
Weight	45 kg		
Topology	Transformerless		
Self consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP65		
Cooling concept	Natural convection		
Max. operation altitude	4000 m		
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
<b>Features</b>			
DC connection	MC4 connector		
AC connection	OT terminal		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		

(1) Activation required.