

Three Phase String Inverter(LV)

SUN- 20 / 25 / 30 K-G02-LV



- LV** 127/220Vac and 60Hz, Three phase system
- M** Max. 4 MPP trackers, Max. efficiency up to 98.7%
- F** Zero export application, VSG application
- A** String intelligent monitoring (optional)
- W** Wide output voltage range
- PID** Anti-PID function (Optional)

Technical Data

Model	SUN-20K-G02-LV	SUN-25K-G02-LV	SUN-30K-G02-LV
Input Side			
Max. DC Input Power (kW)	26	32.5	39
Max. DC Input Voltage (V)	800		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200~700		
Max. DC Input Current (A)	40+40	40+40+40	40+40+40+40
Max. Short Circuit Current (A)	60+60	60+60+60	60+60+60+60
Number of MPPT / Strings per MPPT	2/3	3/3	4/3
Output Side			
Rated Output Power (kW)	20	25	30
Max. Active Power (kW)	22	27.5	33
Nominal Output Voltage / Range (V)	3L/N/PE 127/220 176Vac~242Vac (this may vary with grid standards)		
Rated Grid Frequency (Hz)	60 / 50 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	52.5	65.6	78.7
Max. AC Output Current (A)	57.8	72.2	86.6
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	57~62		
Efficiency			
Max. Efficiency	98.7%		
Euro Efficiency	98%		
MPPT Efficiency	>99%		
Protection			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Insulation Resistance Protection	Yes		
Ground Fault Monitoring	Yes		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
General Data			
Size (mm)	362Wx577Hx215D	647.5Wx537Hx303.5D	
Weight (kg)	25.5	44.5	
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C, >45°C derating		
Ingress Protection	IP65		
Noise Emission (Typical)	<45 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		