

## Technical Data

Model	SUN-20K	SUN-25K
<b>Input Side</b>		
Max. DC Input Power (kW)	26	32.5
Max. DC Input Voltage (V)	1000	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~850	
Max. DC Input Current (A)	32+32	
Max. Short Circuit Current (A)	48+48	
No. of MPP Trackers	2	
No. of Strings per MPP Tracker	3	
<b>Output Side</b>		
Rated Output Power (kW)	20	25
Max. Active Power (kW)	22	27.5
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V	
Rated Grid Frequency (Hz)	50 / 60 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	30.3/29	37.9/36.2
Max. AC Output Current (A)	33.3/31.9	41.7/39.8
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
<b>Efficiency</b>		
Max. Efficiency	98.6%	
Euro Efficiency	97.8%	
MPPT Efficiency	>99%	
<b>Protection</b>		
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	
<b>General Data</b>		
Size (mm)	330W×508H×206D	
Weight (kg)	20.8	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C, >45°C derating	
Ingress Protection	IP65	
Noise Emission (Typical)	<40 dB	
Cooling Concept	Smart cooling	
Max. Operating Altitude Without Derating	2000m	
Warranty	5 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	
<b>Features</b>		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/WiFi/LAN	