

Technical Data

Model	SUN-30K-SG02HP3 -EU-AM3
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160-700
Max. Charging Current (A)	75
Max. Discharging Current (A)	75
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Access Power (W)	60000
Max. DC Input Power (W)	48000
Max. DC Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Voltage Range (V)	150-850
Rated DC Input Voltage (V)	600
Max. Operating PV Input Current (A)	36+36+36
Max. Input Short-Circuit Current (A)	54+54+54
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	30000
Max. AC Input/Output Apparent Power (VA)	33000
Rated AC Input/Output Current (A)	45.5/43.5
Max. AC Input/Output Current (A)	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	80
Peak Power (off-grid) (W)	1.5 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency	98.50%
Euro Efficiency	98.0%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Noise (dB)	≤55
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (Wxd-txD mm)	448x688x 270(Excluding Connectors and Brackets)
Weight (kg)	46
Type of Cooling	Intelligent air cooling
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2