Technical Data

Model	SUN-20K-SG01HP3-EU-AM2
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160~700
Max. Charging Current (A)	37
Max. Discharging Current (A)	37
Number of Battery Input	1
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	26000
Max. DC Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Range (V)	150-850
Full Load DC Voltage Range (V)	500-850
Rated DC Input Voltage (V)	600
PV Input Current (A)	26+26
Max. PV I_{SC} (A)	39+39
No.of MPP Trackers	2
No.of Strings per MPP Tracker	2+2
AC Output Data	
Rated AC Output and UPS Power (W)	20000
Max. AC Output Power (W)	22000
AC Output Rated Current (A)	30.4/29
Max. AC Output Rated Current (A)	33.4/31.9
Max. Three-phase Unbalanced Output Current(A)	35
Max. Continuous AC Passthrough (A)	80
Peak Power (off grid)	1.5 time of rated power, 10 S
Generator Input/Smart Load /AC Couple Current (A)	30.4/80/30.4
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Protection	
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection
Over Voltage Category	DC Type II/AC Type III
Certifications and Standards	
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
General Data	
Operating Temperature Range (℃)	-40-60℃, >45℃ Derating
Cooling	Smart Cooling
Noise (dB)	≤55 dB
Communication with BMS	RS485; CAN
Weight (kg)	30.5
Cabinet Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)
Protection Degree	IP65
Installation Style	Wall-mounted