9. Datasheet

Model	*SUN-10K-SG02LP1-EU-AM3*	*SUN-12K-SG02LP1-EU-AM3*
Battery Input Data		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range(V)	40-60	
Max. Charging Current(A)	220	250
Max. Discharging Current(A)	220	250
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power(W)	13000	15600
PV Input Voltage(V)	370(125-500)	
MPPT Range(V)	150-425	
Full Load DC Voltage Range	200-425	
Start-up Voltage(V)	125	
PV Input Current(A)	26+26+26	26+26+26
Max.PV Isc(A)	44+44+44	44+44+44
No. of MPPT Trackers	3	
No. of Strings Per MPPT Tracker	2+2+2	2+2+2
AC Output Data		
Rated AC Output and UPS Power(W)	10000	12000
Max. AC Output Power(W)	11000	13200
Peak Power(off grid)	2 times of rated power, 10 S	
AC Output Rated Current(A)	45.5/43.5	54.6/52.2
Max. AC Current(A)	50/47.9	60/57.4
Max. Continuous AC Passthrough(A)	60	60
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50 / 60Hz; 220/230Vac	
Grid Type	Single Phase	
Total Harmonic Distortion (THD)	<3% (of nominal power)	
DC current injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	>99%	
Protection		
PV Arc Fault Detection	Integrated	
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Surge Protection	DC Type II / AC Type II	
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, G98, VDE-AR-N 4105
EMC / Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range(℃)	-40 to +60℃, >45℃ Derating
Cooling	Smart cooling
Noise(dB)	<45 dB
Communication with BMS	RS485; CAN
Weight(kg)	35.6
Cabinet size(mm)	420W×670H×233D (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy