



Off-Grid Inverter

SUN-3K-OG03LP1-24-EU-AM1

SUN-3/3.6/4K-OG03LP1-EU-AM1

SUN-5/6/6.6/7/7.5/8/8.8K-OG03LP1-EU-AM2



Home-Ready Design

Upgraded layered structure with curved panels



Built-in Wi-Fi

No extra logger needed



Multiple Power Options

3-8.8kW models to meet different energy needs



Lightweight & Easy Installation

Only 8.6 kg, enabling effortless handling and setup



Powerful Charge/Discharge Current

Up to 190A



2× PV Oversizing

Maximize energy harvest



Up to 2 MPPTs

Support high-current PV modules



200% Peak Output

Reliable high-power startup



IP65 Protection Rating

High-level dust and water resistant



Max. 97.6% Efficiency

Low charge/discharge losses



4ms On/Off-Grid Switching

Protect sensitive loads



Flexible Expansion

Max.16 inverters/ 32 batteries in parallel

Model	SUN-3K-OG03LP1-24-EU-AM1	SUN-3K-OG03LP1-EU-AM1	SUN-3.6K-OG03LP1-EU-AM1	SUN-4K-OG03LP1-EU-AM1	SUN-5K-OG03LP1-EU-AM2	SUN-6K-OG03LP1-EU-AM2	SUN-6.6K-OG03LP1-EU-AM2	SUN-7K-OG03LP1-EU-AM2	SUN-7.5K-OG03LP1-EU-AM2	SUN-8K-OG03LP1-EU-AM2	SUN-8.8K-OG03LP1-EU-AM2
Battery Input Data											
Battery Type	Lead-acid or Lithium-ion										
Battery Voltage Range (V)	20-30	40-60									
Max. Charging/Discharging Current (A)	135	70	90	95	120	135	140	175	175	190	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS										
Number of Battery Input	1										
PV String Input Data											
Max. PV access power (W)	6000	7200	8000	10000	12000	13200	14000	15000	16000	17600	
Max. PV Input Power (W)	4800	5760	6400	8000	9600	10560	11200	12000	12800	14080	
Max. PV Input Voltage (V)	500										
Start-up Voltage (V)	125										
MPPT Voltage Range (V)	150-425										
Rated PV Input Voltage (V)	370										
Max. Operating PV Input Current (A)	18			18+18				36+18			
Max. Input Short-Circuit Current (A)	27			27+27				54+27			
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1			2/1+1				2/1+1			
AC Output Data											
Rated AC Output Power (VA/W)	3000	3600	4000	5000	6000	6600	7000	7500	8000	8800	
Max. AC Output Power (VA/W)	3000	3600	4000	5000	6000	6600	7000	7500	8000	8800	
Max. AC Output Current (A)	13.1	15.7	17.4	21.8	26.1	28.7	30.5	32.7	34.8	38.3	
Rated AC Output Current (A)	13.1	15.7	17.4	21.8	26.1	28.7	30.5	32.7	34.8	38.3	
Peak Power (W)	2 times of rated power, 10s										
Rated output voltage	230 L+N+PE										
Rated Output Frequency	50Hz/60Hz										
Output Voltage Waveform	Pure Sine Wave										
Total Current Harmonic Distortion THDi	<3%										
AC Input Data(Grid and Generator)											
Max. Input Power to Battery (W)	3000	3600	4000	5000	6000	6600	7000	7500	8000	8800	
Rated Input Voltage	230										
Rated Input Frequency	50Hz/60Hz										
Grid Input Current (A)	35										
Generator Input Current (A)	35										
Efficiency											
Max. Efficiency	97.6%										
Euro Efficiency	96.5%										
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, Insulation Impedance Detection										
Surge Protection Level	TYPE II(DC), TYPE II(AC)										
Interface											
LCD/LED Display	LCD										
Communication Interface	Wi-Fi&BT, RS485, CAN										
General Data											
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating										
Permissible Ambient Humidity	0-100%										
Permissible Altitude	3000m										
Noise (dB)	<46										
Ingress Protection(IP) Rating	IP 65										
Inverter Topology	Non-Isolated (solar), Isolated (battery)										
Over Voltage Category	OVC II(DC), OVC III(AC)										
Cabinet Size (WxHxD mm)	323×424×176 (Excluding Connectors and Brackets)										
Weight (kg)	8.6										
Type of Cooling	Intelligent Air Cooling										
Warranty	Standard 5 years, extendable warranty										
Safety / EMC Standard	IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4										