



More Reliable More Practical More Affordable

New-Generation Off-Grid Inverter

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

SUN-3/3.6/4/5/6/6.6K-OG03LP1-EU-AM1/AM2



2× PV Oversizing
Higher Energy Yield



Max. 36A PV Input
Supports High-Power PV Modules



200% Peak Output
Reliable High-Power Startup



**Max. 140A Charge/
Discharge Current**
Proven Reliability



4ms Ultra-Fast Switching
Seamless Power for Sensitive Loads



97.6% Conversion Efficiency
Low Charge/Discharge Losses



Max. 16 Units in Parallel
Easily Build a Larger-Scale
Off-Grid System



Speed Up Returns
Boost Profitability with Lower Costs



Smart Energy Management
PV Prioritized, Surplus Stored



Noise < 46 dB
Ensure Quiet Operation



IP65 Protection Rating
5-year standard warranty



Smart Connectivity
Remote Monitoring & Configuration

Model	SUN-3K-OG03 LP1-24-EU-AM1	SUN-3K-OG03 LP1-EU-AM1	SUN-3.6K-OG03 LP1-EU-AM1	SUN-4K-OG03 LP1-EU-AM1	SUN-5K-OG03 LP1-EU-AM2	SUN-6K-OG03 LP1-EU-AM2	SUN-6.6K-OG03 LP1-EU-AM2
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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
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
Max. PV Input Power (W)	4800	5760	6400	8000	9600	10560
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		
Max. Input Short-Circuit Current (A)	27			27+27		
No. of MPP Trackers/No. of Strings MPP Tracker	1/1			2/1+1		

AC Output Data

Rated AC Output Power (VA/W)	3000	3600	4000	5000	6000	6600
Max. AC Output Power (VA/W)	3000	3600	4000	5000	6000	6600
Max. AC Output Current (A)	13.1	15.7	17.4	21.8	26.1	28.7
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
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	WIFI,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