



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



Scalable System
Inverter & Battery Parallel Expansion



Speed Up Returns
Boost Profitability with Lower Costs



Smart Energy Management
PV Prioritized, Surplus Stored



Low-Noise Operation
Quiet Performance under 46 dB



Safe & Reliable
Advanced BMS + Active
Fuse Protection



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
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						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	323×424×176 (Excluding Connectors and Brackets)						
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						