Off-Grid Inverter

SUN-3K-OG03LP1-24-EU-AM1 SUN-3/3.6K-OG03LP1-EU-AM1
SUN-5/6.6/8.8K-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 Design
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

Technical Data

Model	SUN-3K-OG03 LP1-24-EU-AM1	SUN-3K-OG03 LP1-EU-AM1	SUN-3.6K-OG03 LP1-EU-AM1	SUN-5K-OG03 LP1-EU-AM2	SUN-6.6K-OG03 LP1-EU-AM2	SUN-8.8K-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	120	140	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	10000	13200	17600
Max. PV Input Power (W)	4800		5760	8000	10560	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		2/2+1
AC Output Data						
Rated AC Output Power (VA/W)	3000		3600	5000	6600	8800
Max. AC Output Power (VA/W)	3000		3600	5000	6600	8800
Max. AC Output Current (A)	13.1		15.7	21.8	28.7	38.3
Rated AC Output Current (A)	13.1		15.7	21.8	28.7	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	5000	6600	8800
Rated Input Voltage	230					
Rated Input Frequency	50Hz/60Hz					
Grid Input Current (A)	35					50
Generator Input Current (A)	35					50
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					<50
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					10.6
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years					
Safety / EMC Standard	IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4					

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Ningbo Deye Inverter Technology Co., Ltd.
Address: No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China. | Tel: +86 (0)574 86228841 | E-mail: market@deye.com.cn