



OFF GRID SOLAR INVERTER

Single Phase 3-6KW, 2 MPPT Off Grid Inverter

SUN-3/3.6/5/6K-OG01LP1-EU-AM2



Screen & IP65
Colorful touch LCD,
IP65 protection degree



Galvanic coupling
DC couple and AC couple to
retrofit existing solar system



Maximum Current
Max. charging/discharging
current of 140A



Charging/Discharging
6 time periods for battery
charging/discharging



Generator Storing
Support storing energy from
diesel generator

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Single Phase 3-6KW, 2 MPPT Off Grid Inverter

Model	SUN-3K OG01LP1-24-EU-AM2	SUN-3.6K OG01LP1-EU-AM2	SUN-5K OG01LP1-EU-AM2	SUN-6K OG01LP1-EU-AM2
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	20~30	40~60	40~60	40~60
Max. Charging Current (A)	130	90	120	135
Max. Discharging Current (A)	130	90	120	135
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	12000
Max. PV Input Power (W)	4800	5760	8000	9600
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
PV Input Voltage(V)	125-500			
MPPT Voltage Range(V)	150-425			
Full Load MPPT Voltage Range(V)	300-425			
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		
Max. Inverter Backfeed Current to The Array(A)	0			
AC Output Data				
Rated AC Output Power (VA/W)	3000	3600	5000	6000
Max. AC Output Power (VA/W)	3000	3600	5000	6000
Max. AC Output Current (A)	13.1	15.7	21.8	26.1
Peak Power (W)	2 times of rated power, 10s			
Rated Output Voltage (V)	230			
Output Type	L+N+PE			
Rated Output Frequency	50Hz / 50Hz			
Output Voltage Waveform	Pure Sine Wave			
Total Current Harmonic Distortion THDi	<3%			
AC Input Date(Grid and Generator)				
Rated Output Voltage (V)	3000	3600	5000	6000
Output Type	230			
Rated Output Frequency	50Hz/ 60Hz			
Output Voltage Waveform	35			
Total Current Harmonic Distortion THDi	35			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
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, Arc Fault Circuit Interrupter (optional), Insulation Impedance Detection, DC Switch			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI/RS485/CAN/Bluetooth			
General Data				
Max. Operating Frequency(Hz)	200M			
Operating Temperature Range (C)	-40 to +60 C , >45 C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			