

Three Phase Hybrid Inverter

SUN-100K-SG02HP3-EU-GM8
SUN-100/125K-SG02HP3-EU-GM10



Efficient

- High voltage battery, higher efficiency



Intelligent

- 6 time periods for battery charging/discharging



Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



Reliable

- Max. charging/discharging current of 200A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-100K-SG02HP3-EU-GM8		SUN-100K-SG02HP3-EU-GM10		SUN-125K-SG02HP3-EU-GM10	
Battery Input Data						
Battery Type					Lithium-ion	
Battery Voltage Range (V)					160-1000	
Max. Charging/Discharging Current (A)					100+100	
Charging Strategy for Li-ion Battery					Self-adaption to BMS	
Number of Battery Input					2	
PV String Input Data						
Max. PV access power (W)	200000		200000		250000	
Max. PV Input Power (W)	160000		160000		200000	
Max. PV Input Voltage (V)					1000	
Start-up Voltage (V)					180	
MPPT Voltage Range (V)					150-850	
Rated PV Input Voltage (V)					650	
Max. Operating PV Input Current (A)	42+42+42+42+42+42+42+42		42+42+42+42+42+42+42+42+42			
Max. Input Short-Circuit Current (A)	63+63+63+63+63+63+63+63		63+63+63+63+63+63+63+63+63			
No. of MPP Trackers/ No. of Strings MPP Tracker	8/2+2+2+2+2+2+2		10/2+2+2+2+2+2+2+2			
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	100000		100000		125000	
Max. AC Input/Output Apparent Power (VA)	110000		110000		135000	
Rated AC Input/Output Current (A)	151.6/145.0		151.6/145.0		189.4/181.2	
Max. AC Input/Output Current (A)	166.7/159.5		166.7/159.5		204.6/195.7	
Max. Continuous AC Passthrough (grid to load) (A)			250			
Peak Power (off-grid) (W)			1.5 times of rated power, 10s			
Power Factor Adjustment Range			0.8 leading to 0.8 lagging			
Rated input/output voltage			220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)			50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi			<3% (of nominal power)			
DC Injection Current			<0.5% In			
Efficiency						
Max. Efficiency			98.70%			
Euro Efficiency			98.10%			
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 (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
LCD/LED Display	LCD+LED					
Communication Interface	RS485,RS232,CAN					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	3000m					
Noise (dB)	≤65					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	734×1091×344 (Excluding Connectors and Brackets)					
Weight (kg)	161.7					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549, NRS 097,RD 140,UNE 217002, OVE-Richtlinie R25,G99,VDE-AR-N 4105					
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					