

Three Phase Hybrid Inverter

SUN-25/29.9/30K-SG02HP3-EU-AM3



- 100** 100% unbalanced output, each phase
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 75** Max. charging/discharging current of 75A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

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Stock Code: 605117.SH

Model	SUN-25K-SG02HP3 -EU-AM3		SUN-29.9K-SG02HP3 -EU-AM3		SUN-30K-SG02HP3 -EU-AM3	
Battery Input Data						
Battery Type			Lithium-ion			
Battery Voltage Range (V)			160-700			
Max. Charging Current (A)			75			
Max. Discharging Current (A)			75			
Charging Strategy for Li-ion Battery			Self-adaption to BMS			
Number of Battery Input			1			
PV String Input Data						
Max. PV Access Power (W)			50000	59800	60000	
Max. DC Input Power (W)			40000	47840	48000	
Max. DC Input Voltage (V)			1000			
Start-up Voltage (V)			180			
MPPT Voltage Range (V)			150-850			
Rated DC Input Voltage (V)			600			
Max. Operating PV Input Current (A)			36+36+36			
Max. Input Short-Circuit Current (A)			54+54+54			
No. of MPP Trackers/ No. of Strings MPP Tracker			3/2+2+2			
AC Input/Output Data						
Rated AC Input/Output Active Power (W)			25000	29900	30000	
Max. AC Input/Output Apparent Power (VA)			27500	29900	33000	
Rated AC Input/Output Current (A)			37.9/36.3	45.4/43.4	45.5/43.5	
Max. AC Input/Output Current (A)			41.7/39.9	45.4/43.4	50/47.9	
Max. Continuous AC Passthrough (grid to load) (A)			80			
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/Range (V)			220/380V, 230/400V 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)			50/45-55, 60/55-65			
Grid Connection Form			3L+N+PE			
Total Current Harmonic Distortion THDi			<3% (of nominal power)			
DC Injection Current			<0.5% In			
Efficiency						
Max. Efficiency			98.50%			
Euro Efficiency			98.0%			
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), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level			TYPE II(DC), TYPE II(AC)			
Interface						
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)			≤55			
Ingress Protection(IP) Rating			IP 65			
Inverter Topology			Non-Isolated			
Over Voltage Category			OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)			448x688x 270(Excluding Connectors and Brackets)			
Weight (kg)			46			
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			