

Three Phase Hybrid Inverter

SUN-60/70/75/80K-SG02HP3-EU-EM6



- 100** 100% unbalanced output
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 160** Max. charging/discharging current of 160A
- 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-60K-SG02HP3 -EU-EM6		SUN-70K-SG02HP3 -EU-EM6		SUN-75K-SG02HP3 -EU-EM6		SUN-80K-SG02HP3 -EU-EM6	
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-1000							
Max. Charging Current (A)	80+80							
Max. Discharging Current (A)	80+80							
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Input	2							
PV String Input Data								
Max. PV Access Power (W)	120000	140000	150000	160000				
Max. PV Input Power (W)	96000	112000	120000	128000				
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)	36+36+36+36+36+36							
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54							
No. of MPP Trackers/ No. of Strings MPPT Tracker	6/2+2+2+2+2+2							
AC Input/Output Data								
Rated AC Input/Output Active Power (W)	60000	70000	75000	80000				
Max. AC Input/Output Apparent Power (VA)	66000	77000	82500	88000				
Rated AC Input/Output Current (A)	91/87	106.1/101.5	113.7/108.7	121.3/116				
Max. AC Input/Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.4/127.6				
Max. Continuous AC Passthrough (grid to load) (A)	200							
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	98.70%							
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 (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)	606×927×314 (Excluding Connectors and Brackets)							
Weight (kg)	105							
Type of Cooling	Smart cooling							
Warranty	Standard 5 years, extended warranty							
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							