

Three Phase Hybrid Inverter

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



- 100** 100% unbalanced output, each phase
- AC couple** 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** Support storing energy from diesel generator

Technical Data

Model	SUN-60K-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	150000	160000			
Max. PV Input Power (W)	96000	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 MPP Tracker	6/2+2+2+2+2+2					
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	60000	75000	80000			
Max. AC Input/Output Apparent Power (VA)	66000	82500	88000			
Rated AC Input/Output Current (A)	91/87	113.7/108.7	121.3/115.9			
Max. AC Input/Output Current (A)	100/95.7	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	97.60%					
Euro Efficiency	97.0%					
MPPT Efficiency	>99%					
Equipment Protection						
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level					
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)	≤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	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					