

Three Phase Hybrid Inverter

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



- 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
- 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

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 ()						-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