

Three Phase Hybrid Inverter

SUN-100K-SG02HP3-US-EM6-277V



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 160A
- Support storing energy from diesel generator

Model		SUN-100K-SG02HP3-US-EM6-277V	
Battery Input Data			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	160-1000		
Max. Charging/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)	200000		
Max. PV Input Power (W)	130000		
Max. PV Input Voltage (V)	1000		
Start-up Voltage (V)	180		
MPPT Voltage Range (V)	150-850		
Rated PV Input Voltage (V)	680		
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)	100000		
Max. AC Input/Output Apparent Power (VA)	100000		
Rated AC Input/Output Current (A)	120.4		
Max. AC Input/Output Current (A)	120.4		
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	277/480V 0.88Un-1.1Un 3L+N+PE		
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65		
Total Current Harmonic Distortion THDi	<3% (of nominal power)		
DC Injection Current	<0.5% In		
Efficiency			
Max. Efficiency	98.7%		
Euro Efficiency	98.1%		
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		
Communication Interface	WIFI, RS485, CAN		
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	TYPE3R		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC IV(AC)		
Cabinet Size (WxHxD mm)	621×1061.2×338 (Excluding Connectors and Brackets)		
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	IEEE 1547-2018,IEEE 1547.1-2020,UL 1699B,UL 1998		
Safety / EMC Standard	UL 1741, FCC		