

Micro Hybrid Inverter

SUN-BK60/80/100SG01-EU-AM2



Efficient

- Max. charging/discharging current 25A



Reliable

- IP67 protection degree
- Supports UPS load, fast switching within 4ms



Flexible

- AC couple to retrofit existing solar system
- Expand two independent PV inputs



Intelligent

- WiFi communication
- Wireless CT / Smart Switch / BMS communication

Model	SUN-BK60SG01-EU-AM2	SUN-BK80SG01-EU-AM2	SUN-BK100SG01-EU-AM2
Battery Input Data			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging/Discharging Current (A)	25		
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Number of Battery Input	1		
PV String Input Data			
Max. PV access power (W)	1320	1760	2200
Max. PV Input Power (W)	960	1280	1600
Max. PV Input Voltage (V)	60		
Start-up Voltage (V)	25		
MPPT Voltage Range (V)	20-55		
Rated PV Input Voltage (V)	42.5		
Max. Operating PV Input Current (A)	18+18		
Max. Input Short-Circuit Current (A)	27+27		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1		
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	600	800	1000
Max. AC Input/Output Apparent Power (VA)	660	880	1100
Rated AC Input/Output Current (A)	2.8/2.7	3.7/3.5	4.6/4.4
Max. AC Input/Output Current (A)	3/2.9	4/3.9	5/4.8
Max. Continuous AC Passthrough (grid to load) (A)	10		
Peak Power (off-grid) (W)	2 times of rated power, 10s		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE		
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Total Current Harmonic Distortion THDi	<3% (of nominal power)		
DC Injection Current	<0.5% In		
Efficiency			
Max. Efficiency	96.5%		
Euro Efficiency	96.0%		
MPPT Efficiency	>99%		
Equipment Protection			
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, Insulation Impedance Detection, Anti-islanding Protection		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
Communication Interface	WiFi, LoRa, Bluetooth		
General Data			
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	2000m		
Noise (dB)	≤25		
Ingress Protection(IP) Rating	IP 67		
Inverter Topology	Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	364.5×183×32.9 (Excluding Connectors and Brackets)		
Weight (kg)	4.55		
Type of Cooling	Natural Cooling		
Warranty	10 Years/15 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, G98, VDE-AR-N 4105		
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		