

Micro Hybrid Inverter

SUN-BK160/180/200/SG01-EU-AM2



- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Wireless CT, Wireless Smart Switch and Wireless BMS communication
- ✓ AC couple to retrofit existing solar system
- ✓ Max. charging/discharging current 45A
- ✓ Expand two independent PV inputs
- ✓ Working in Microinverter mode or storage inverter mode
- ✓ Supports UPS load, fast switching within 4ms

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Stock Code: 605117.SH

Model	SUN-BK160SG01-EU-AM2		SUN-BK180SG01-EU-AM2	SUN-BK200SG01-EU-AM2
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	45			
Max. Discharging Current (A)	45			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	3200	3600	4000	
Max. PV Input Power (W)	2560	2880	3200	
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)	32+32			
Max. Input Short-Circuit Current (A)	48+48			
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	1600	1800	2000	
Max. AC Input/Output Active Power (W)	1600	1800	2000	
Max. AC Input/Output Apparent Power (VA)	1760	1980	2200	
Rated AC Input/Output Current (A)	7.3/7	8.2/7.9	9.1/8.7	
Max. AC Input/Output Current (A)	8/7.7	9/8.7	10/9.6	
Max. Continuous AC Passthrough (grid to load) (A)	12			
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/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
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 Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection Overvoltage Load Drop Protection, Surge protection level			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
General Data				
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	≤35			
Ingress Protection(IP) Rating	IP 67			
Inverter Topology	Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Communication	Wi-Fi, Lora, Bluetooth			
Cabinet Size (WxHxD mm)	369×225.8×62 (Excluding Connectors and Brackets)			
Weight (kg)	4.3			
Type of Cooling	Intelligent Air 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			