

BALCONY SOLAR AND STORAGE

SUN-BK(80-250)-2.56KWH-EU-AM2-32L

Balcony solar system · 0.8 – 2.5 kW · 4 models


0.8 – 2.5 kW

RATED POWER

2.56 kWh

ENERGY CAPACITY

51.2 V

NOMINAL VOLTAGE

IP65

PROTECTION CLASS

Parameter	Unit	SUN-BK80-2.56KWH-EU-AM2-32L	SUN-BK160-2.56KWH-EU-AM2-32L	SUN-BK200-2.56KWH-EU-AM2-32L	SUN-BK250-2.56KWH-EU-AM2-32L
PV input					
Max. PV input power	W	4400			
Max. usable PV input power	W	3520			
Rated PV input voltage	V	42.5			
MPPT voltage range	V	20 – 55			
Start-up voltage	V	25			
Max. input current per MPPT	A	32			
Max. short-circuit current per MPPT	A	48			
Number of MPPT trackers		2			
PV strings per MPPT		2			
AC output					
Rated output power	W	800	1600	2000	2500
Max. AC input/output active power	W	880	1760	2200	2750
Rated AC voltage	V	230			
Rated AC output current	A	3.5	7	8.7	10.9
Phase		Single-phase			
Rated AC frequency	Hz	50/60			
Max. AC output current	A	3.9	7.7	9.6	12
Power factor		0.8 leading – 0.8 lagging			
Backup output power	W	2500			
Peak power (off-grid)		2 x rated power, 10 s			
On-grid/off-grid switchover time		<=4 ms			
Max. parallel units		3			

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Max. rated output power when paralleled	W	7500			
Max. continuous AC pass-through (grid to load)	A	30			
DC injection current		<0.5% In			
Battery					
Battery type		LiFeP04			
Battery voltage range	V	44.8 – 57.6			
Max. charge current	A	50			
Max. discharge current	A	50			
Charging strategy for Li-ion battery		Self-adaption to BMS			
Nominal energy capacity	Wh	2560			
Nominal voltage	V	51.2			
Operating voltage range	V	44.8 – 57.6			
Cell type		LiFeP04			
Cycle life	cycles	≥6000			
Max. expandable energy	Wh	102400			
Max. battery modules stacked	pcs	5			
Max. battery modules in parallel	pcs	40			
Efficiency					
Max. efficiency	%	96.5			
European efficiency	%	96			
MPPT efficiency	%	>99			
Protection					
Protection functions		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)			
General data					
Dimensions (W x H x D)	mm	560 × 330 × 210			
Weight	kg	30			
Battery module dimensions (W x H x D)	mm	450 × 244 × 210			
Battery module weight	kg	22±3			
Ingress protection (IP rating)		IP65			
Operating temperature range	°C	-10 – 55			
Operating temperature range with optional heating	°C	-20 – 55			
Derating above	°C	45			
Relative humidity	%	0 – 95			

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Max. operating altitude	m	2000			
Installation		Floor-mounted, stacked-mounted			
Warranty	years	10			
Communication					
Communication interfaces		Wi-Fi; Bluetooth; LoRa			
Display		LED (SOC, alarm)			
Monitoring		Cloud app (remote monitoring and control); local Bluetooth (offline control)			
Battery module communication interface		LoRa			
Certifications					
Certifications and standards		IEC 62619; UN38.3; IEC/EN 62109-1; IEC/EN 62109-2; IEC/EN 61000-6-1/2/3/4			
Battery module certification		UN38.3; IEC 62619; CE			
Grid codes		VDE 4105; IEC 61727/62116; VDE 0126; AS 4777.2; CEI 0-21; EN 50549-1; G98; C10-11; UNE 217002			

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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