

BALCONY SOLAR AND STORAGE
SUN-BK80-250-2.56KWH-EU-AM4-18-32(L)

Balcony solar system · 0.8 – 2.5 kW · 8 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-AM4-18L	SUN-BK160- 2.56KWH- EU-AM4-18L	SUN-BK200- 2.56KWH- EU-AM4-18L	SUN-BK250- 2.56KWH- EU-AM4-18L	SUN-BK80- 2.56KWH- EU-AM4-32L	SUN-BK160- 2.56KWH- EU-AM4-32L	SUN-BK200- 2.56KWH- EU-AM4-32L	SUN-BK250- 2.56KWH- EU-AM4-32L
PV input									
Max. PV input power	W	4400				5760			
Rated PV input voltage	V	42.5							
MPPT voltage range	V	20 – 55							
Start-up voltage	V	25							
Max. input current per MPPT	A	18				32			
Max. short-circuit current per MPPT	A	27				48			
Number of MPPT trackers		4							
PV strings per MPPT		1							
AC output									
Rated output power	W	800	1600	2000	2500	800	1600	2000	2500
Max. AC input/output active power	W	880	1760	2200	2750	880	1760	2200	2750
Rated AC voltage	V	230							
Rated AC output current	A	3.5	7	8.7	10.9	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	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							
Max. rated output power when paralleled	W	7500							

Parameter	Unit	SUN-BK80- 2.56KWH- EU-AM4-18L	SUN-BK160- 2.56KWH- EU-AM4-18L	SUN-BK200- 2.56KWH- EU-AM4-18L	SUN-BK250- 2.56KWH- EU-AM4-18L	SUN-BK80- 2.56KWH- EU-AM4-32L	SUN-BK160- 2.56KWH- EU-AM4-32L	SUN-BK200- 2.56KWH- EU-AM4-32L	SUN-BK250- 2.56KWH- EU-AM4-32L
Max. continuous AC pass-through (grid to load)	A	30							
DC injection current		<0.5% In							
Battery									
Battery type		LiFePO4							
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		LiFePO4							
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							
Max. operating altitude	m	2000							

Parameter	Unit	SUN-BK80- 2.56KWH- EU-AM4-18L	SUN-BK160- 2.56KWH- EU-AM4-18L	SUN-BK200- 2.56KWH- EU-AM4-18L	SUN-BK250- 2.56KWH- EU-AM4-18L	SUN-BK80- 2.56KWH- EU-AM4-32L	SUN-BK160- 2.56KWH- EU-AM4-32L	SUN-BK200- 2.56KWH- EU-AM4-32L	SUN-BK250- 2.56KWH- EU-AM4-32L
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							
Optional interfaces		Parallel communication port and load port; RS485 port; CT port (must be selected at order, not field-upgradable)							
Optional accessory		Wireless CT (SUN-SMART-CT01) for wireless zero-export control							
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.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

E-mail lidreamtec@163.com
WhatsApp +86 133 5280 0772