

POWER BANK BATTERY ENERGY STORAGE



A **Soluna Power Bank** all-in-one, integrated battery storage system, combined with a quality solar PV array, is the ultimate solution for powering your home, reducing electricity bills and maximising energy independence – night and day.

ENVIRONMENT

An investment in clean, affordable energy – being eco-friendly begins at home.

SECURITY

Blackout protection provides energy security and peace of mind 24/7.

INDEPENDENCE

Battery storage of solar energy enhances self-sufficiency and reduces electricity bills.

ALL-IN-ONE

BACK-UP POWER

10-YEAR WARRANTY*

ONLINE MONITORING

HYBRID AND OFF-GRID

INPUT POWER SOURCE – SOLAR – GRID – DIESEL GENERATOR

POWER BANK TECHNICAL SPECIFICATIONS

BATTERY SPECIFICATIONS

Model	S4 EU-A36	S8 EU-A50	S12 EU-A50
Battery type	Lithium (LFP)	Lithium (LFP)	Lithium (LFP)
Nominal storage capacity (kWh)	3.84	7.68	11.52
Usable storage capacity (kWh)	3.46	6.91	10.37
Battery capacity (Ah)	75	150	225
Nominal voltage (V)	51.2	51.2	51.2
Voltage range (V)	42-58	42-58	42-58
Max. charge current (A)	50	100	100
Max. discharge current (A)	50	100	100
Depth of discharge (DoD) (%)	90	90	90
Cycle life (charge/discharge)	6000	6000	6000

REGULAR PARAMETERS

Dimensions (H x W x D) (mm)	1230 x 700 x 340	1335 x 750 x 565	1335 x 750 x 565
Weight (kg)	85 (not including battery)	120 (not including battery/s)	120 (not including battery/s)
Display	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen
Communication	CAN-WiFi	CAN-WiFi	CAN-WiFi
Operating temperature (° C)	-10 to +40	-10 to +40	-10 to +40
Storage stability (° C)	-20 to +60	-20 to +60	-20 to +60
Relative humidity (%)	5-95	5-95	5-95
Altitude (m)	<2000	<2000	<2000
Cooling methods	Forced airflow	Forced airflow	Forced airflow
Degree of protection	IP20 (+optional external enclosure)	IP20 (+optional external enclosure)	IP20 (+optional external enclosure)

INVERTER – PV INPUT

Inverter model	SUN-3.6K-SG03LP1-EU	SUN-5K-SG03LP1-EU	SUN-5K-SG03LP1-EU
Max. recommended DC (kW)	4.68	6.5	6.5
Max. DC voltage (V)	500	500	500
Isc PV (absolute max.) (A)	16	16/16	16/16
Number of MPPT trackers	1	2	2
Strings per MPPT	1/1	1/1	1/1
Nominal DC operating voltage (V)	360	360	360
Max. input current MPPT (A)	11	11/11	11/11
MMPT voltage range (V)	125-425	125-425	125-425
Efficiency (%)	97	97	97

INVERTER – AC INPUT & OUTPUT

Nominal AC voltage (VAC)	230, single-phase (L/N/PE)	230, single-phase (L/N/PE)	230, single-phase (L/N/PE)
Frequency (Hz)	50	50	50
Max. AC output current (A)	18	25	25
Max. AC input current (A)	18	25	25
Max. continuous power (kW)	3.6	5.0	5.0
Power factor range	-0.8 to +0.8	-0.8 to +0.8	-0.8 to +0.8

CERTIFICATIONS

AS/NZS 4777.2: 2015 IEC 62109-2: 2011 IEC 62109-1: 2010 IEC 62619: 2017 UL1973 AS/NZS 60950.1: 2015

RECOMMENDED GENERATORS

Please check relevant manual for guide to recommended generators.

*10-year standard warranty for inverter and battery (2-year warranty for LCD touch screen, 5-year warranty for circuit breakers).

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

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