

INTRODUCING  
**SOLUNA™**  
SOLAR POWER BANKS



## POWER BANK FEATURES

- Intelligent power management
- Simple user controls, power data history analysis, and programming
- Capacitive touch screen interface
- Secure battery access door
- Height-adjustable threaded appliance-grade feet for stability and level appearance



# POWER BANK S4

## TECHNICAL SPECS



### POWER

AC Power	3600 W
AC Voltage	230 VAC 50/60 Hz
PV MPPT Voltage	125-425 VDC
Battery Type	Lithium Ion battery
Capacity	3.84 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	50 A
DOD	90%
Battery Modules	1
HDMI Interface	7" LCD
Operating Temperature	-10° to 45°C / 14°F to 113°F
Certification	Cell: UL1642 Pack: UN38.3, UL1973, and IEC62619 System: UL9540, IEC/EN 62109

### MISCELLANEOUS

Installation	Floor Install in indoor and covered outdoor area, or inside a power bank casing
Weight	138 kg / 303.6 lbs
Dimensions	(H x W x D) 1230mm x 700mm x 340mm 48.4" x 27.6" x 13.4"
Warranty	5-year standard warranty <b>Optional 5-year extension</b>

## HOME STORAGE SYSTEM SPECIFICATION

PV Input	S4	S8	S12
Max. recommended DC power (W)	3960	6500	6500
Max. DC voltage (V)	500	500	500
Norminal DC operating voltage (V)	360	360	360
MPPT voltage range (V)	125-425	125-425	125-425
Max. input current (A)	11	11	11
Max. short current (A)	16	16	16
Number of MPPT trackers	1	2	2
Strings per MPPT tracker	1	1	1
AC Output			
AC nominal power (W)	3600	5000	5000
Max. AC current (A)	18	25	25
Max. AC short current (A)	20	30	30
Max. AC protection current (A)	20	30	30
Nominal AC voltage/Range (VAC)	230 ;180-270	230 ;180-270	230 ;180-270
Grid Frequency/Range (Hz)	50(45-54) / 60(55-65)	50(45-54) / 60(55-65)	50(45-54) / 60(55-65)
Power factor (rated power)	≥0.99	≥0.99	≥0.99
Displacement Power Factor	±0.95	±0.95	±0.95
Grid type	Single phase(L/N/PE)	Single phase(L/N/PE)	Single phase(L/N/PE)
Total harmonic distortion (THD)	<3%	<3%	<3%
Off-Grid AC Output			
Max. AC power (W)	3600	5000	5000
Off-Grid AC Rated voltage (V)	220/230/240	220/230/240	220/230/240
AC nominal current (A)	13	20	20
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. AC short current (A)	20	30	30
Switching time (ms)	20	20	20
Total harmonic distortion (THD)	<3%	<3%	<3%
Peak power(off grid)/Time	150%/10s	150%/10s	150%/10s
Back current (A)	0	0	0
Grid type	Single phase(L/N/PE)	Single phase(L/N/PE)	Single phase(L/N/PE)

## HOME STORAGE SYSTEM SPECIFICATION

Battery Data	S4	S8	S12
Battery type	Lithium Ion battery	Lithium Ion battery	Lithium Ion battery
Nominal Storage capacity (kWh)	3.84	7.68	11.52
Usable Storage Capacity (kWh)	3	6.1	9.22
Battery capacity (Ah)	100	200	300
Normal voltage (V)	51.2	51.2	51.2
Voltage range (V)	42-58	42-58	42-58
Max. charge current (A)	50 A	100 A	100 A
Max. discharge current (A)	50 A	100 A	100 A
DOD	90%	90%	90%
Cycle life	6000	6000	6000
Regular Parameters			
Dimension (H x W x D)	1230mm x 700mm x 340mm	1330mm x 750mm x 565mm	1330mm x 750mm x 565mm
Weight (kg)	138kg	240kg	300kg
Display	7" graphic LCD	7" graphic LCD	7" graphic LCD
Communication	CAN,WIFI	WIFI,CAN	WIFI,CAN
Operating temperature range (°C)	-10~+45	-10~+45	-10~+45
Storage stability range (°C)	-20~+60	-20~+60	-20~+60
Relative humidity	0-95%	0-95%	0-95%
Altitude (m)	<2000	<2000	<2000
Cooling methods	Forced airflow	Forced airflow	Forced airflow
Degree of protection	IP20	IP20	IP20
Certificates	IEC/EN 62109	IEC/EN 62109	IEC/EN 62109
Warranty	5 Year, Optional 5 year extension		