

A night cityscape with a crescent moon and dark clouds. The sky is a mix of orange and blue, with a thin crescent moon in the upper left. Large, dark, silhouetted clouds are scattered across the sky. The city lights at the bottom are a dense field of small, bright yellow and white dots.

SOLUNA™

POWER DESIGNED FOR NIGHT AND DAY



ENVIRONMENT

Power designed for clean and affordable energy. Becoming eco-friendly can start at home.



SECURITY

The safety and security of your home is one more thing you don't have to worry about.



INDEPENDENCE

Gain freedom from the standards of electricity, powering your home with solar energy.

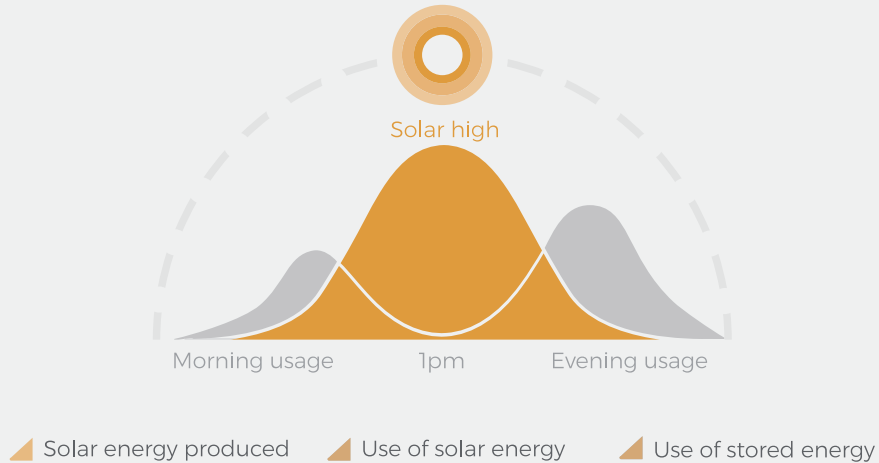


ENVIRONMENT

POWER DESIGNED FOR CLEAN AFFORDABLE ENERGY

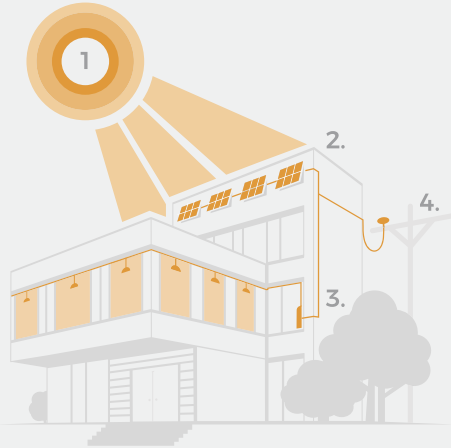
SYNC WITH THE SUN

Most energy is used morning and evenings. Soluna Power Banks minimize waste and pollution by leveraging the power of the sun 24 hours a day.



CLEAN AND AFFORDABLE ENERGY

Once your Soluna Power Bank is full, surplus power is sent to the local grid, saving costs and the environment.



1. Solar energy 2. Solar panel 3. Power Bank 4. Local Grid

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



Soluna Planta 2.5K PACK

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	2.5 kWh
Depth of Discharge	90%
Voltage	51.2 V
Certification	Cell: UL1642 Module: UN38.3 and CE
Max Charge/Discharge	50 A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Floor Install in an indoor and/or covered outdoor area, or inside a power bank casing
Weight	24 kg / 52.8 lbs
Dimensions	(H x W x D) 550mm x 390mm x 110mm 21.7" x 15.4" x 14.3"

BATTERY MODULE 4K PACK

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	3.84 kWh
Depth of Discharge	80%
Voltage	51.2 VDC
Certification	Cell: UL1642 UN38.3, UL1973, and IEC62619
Max Discharge	50A
Operating Temperature	-10°C to 45°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Floor Install in an indoor and/ or covered outdoor area, or inside a power bank casing
Weight	60 kg / 123.5 lbs
Dimensions	(H x W x D) 436mm x 678mm x 205mm 17.2" x 26.7" x 8.1"

BATTERY MODULE EOS 5K

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	5.12kWh
Depth of Discharge	90%
Voltage	51.2 V
Certification	Cell: UL1642 Module: UN38.3, UL1973 IEC62619, CE RoHS
Max Charge/Discharge	100A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoors
Weight	60 kg
Dimensions	(H x W x D) 595mm x 438mm x 165mm
Warranty	10-year standard warranty

BATTERY MODULE **BES 5K PACK**

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	5.12 kWh
Depth of Discharge	90%
Voltage	51.2 V
Certification	Cell: UL1642 Module: UN38.3, UL1973, UL9540A IEC62619, CE RoHS
Max Charge/Discharge	75A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoor / Outdoor
Weight	48kg
Dimensions	(H x W x D) 595mm x 420mm x 157mm
Warranty	10-year standard warranty

BATTERY MODULE Franz 9.6K Pack LV

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	9.6 kWh
Depth of Discharge	90%
Voltage	48 V
Certification	Cell: UL1642 Module: UN38.3, IEC62619 CE RoHS
Max Charge/Discharge	100/200A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoor / Outdoor
Weight	90 kg
Dimensions	(H x W x D) 760mm x 500mm x 215mm
Warranty	10-year standard warranty

BATTERY MODULE 10K PACK LV

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	10 kWh
Depth of Discharge	90%
Voltage	51.2 V
Certification	Cell: UL1642 Module: UN38.3, UL1973, UL9540A IEC62619, CE RoHS
Max Charge/Discharge	100/200A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoor / Outdoor
Weight	100 kg
Dimensions	(H x W x D) 760mm x 500mm x 215mm
Warranty	10-year standard warranty

LIBERTY

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	30.72 kWh
Depth of Discharge	90%
Voltage	51.2 V
Certification	Cell: UL1642 Module: UN38.3, UL1973, IEC62619 CE RoHS
Max Charge/Discharge	180A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoors
Weight	430 kg
Dimensions	(H x W x D) 1340mm x 600mm x 650mm
Warranty	10-year standard warranty

BATTERY MODULE 6K PACK HV



POWER

Battery Type	Lithium Ion battery
Capacity	6 kWh
Depth of Discharge	90%
Voltage	153.6 V
Certification	Cell: UL1642 Pack: UL9540A , UL1973 CE RoHS IEC62619 UN38.3
Max Charge/Discharge	40A / 40A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	74kg / 163 lbs
Dimensions	(H x W x D) 971mm x 654mm x 227mm 38.2" x 25.7" x 8.9"
Warranty	10-year standard warranty

BATTERY MODULE 10K PACK HV

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	10 kWh
Depth of Discharge	90%
Voltage	268.8 V
Certification	Cell: UL1642 Pack: UL9540A, UL1973 CE RoHS IEC62619 UN38.3
Max Charge/Discharge	40 A / 40A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	103 kg / 227 lbs
Dimensions	(H x W x D) 971mm x 654mm x 227mm 38.2" x 25.7" x 8.9"
Warranty	10-year standard warranty

BATTERY MODULE 15K PACK HV

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	15 kWh
Depth of Discharge	90%
Voltage	384 V
Certification	Cell: UL1642 Pack: UL9540A, UL1973 CE RoHS IEC62619 UN38.3
Max Charge/Discharge	40A / 40A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	146.8kg / 324lbs
Dimensions	(H x W x D) 1205mm x 654mm x 227mm 47.2" x 23.6" x 7.9"
Warranty	10-year standard warranty

BATTERY MODULE 20K Pack HV

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	20 kWh
Depth of Discharge	90%
Voltage	499.2 V
Certification	Cell: UL1642 Module: TBD

Max Charge/Discharge	40/40A
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity Conditions	5% to 95% RH

MISCELLANEOUS

Installation	Indoor / Outdoor
Weight	178 kg
Dimensions	(H x W x D) 1480mm x 590mm x 220mm
Warranty	10-year standard warranty

POWER BANK S4 PLUS

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	5.12 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	50 A
DOD	90%
Battery Modules	1
HDMI Interface	7" LCD
Operating Temperature	-10°C 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 Optional 5-year extension

POWER BANK S8 PLUS

TECHNICAL SPECS



POWER

AC Power	5000 W / 6000 W / 8000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	125-425 VDC
Battery Type	Lithium Ion battery
Capacity	10.24 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	100 A
DOD	90%
Battery Modules	2
HDMI Interface	7" LCD
Operating Temperature	-10°C 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/or covered outdoor area,
Weight	240 kg / 528 lbs
Dimensions	(H x W x D) 1330mm x 750mm x 565mm 52.4" x 29.5" x 22.2"
Warranty	5-year standard warranty Optional 5-year extension

POWER BANK S12 PLUS

TECHNICAL SPECS



POWER

AC Power	5000 W / 6000 W / 8000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	125-425 VDC
Battery Type	Lithium Ion battery
Capacity	15.36 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	100 A
DOD	90%
Battery Modules	3
HDMI Interface	7" LCD
Operating Temperature	-10°C 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/or covered outdoor area,
Weight	300 kg / 660 lbs
Dimensions	(H x W x D) 1330mm x 750mm x 565mm 52.4" x 29.5" x 22.2"
Warranty	5-year standard warranty Optional 5-year extension

POWER CELL

TECHNICAL SPECS



POWER

Battery type	Lithium Ion battery
Total Energy Capacity	150kWh
Usable Energy Capacity	135kWh
Battery Capacity	200Ah
Voltage Range	672-840V
Nominal Voltage	769V
Max Charge/ Discharge	100A / 200A
DOD	90%
Power consumption	TBD
Operating Temperature	-10 C to 50 C
Certification	TBD

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	1800kg
Dimensions	(H x W x D) 2050mm x 1200mm x 1050mm
Warranty	5-year standard warranty Optional 5-year extension

VOLANS PORTABLE POWER STATION

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	1.28 kWh
AC Power	1200W
Depth of Discharge	80%
Input Voltage	110V AC / 230V AC
Operation Tem	-10°C to 40°C / 14°F to 104°F
Relative humidity(%RH)	5%-95% RH
DC Output	Car charger output*2: 12V / 10A USB*2: 5V / 2.1A Type-C*4: 5VDC, 9VDC, 15VDC, 20VDC Max Output current 3A Max Output power 60W

MISCELLANEOUS

Weight	16 kg
Dimensions	(H x W x D) 380mm x 215mm x 210mm 14.9" x 8.46" x 8.26"

Cactus A15/A30/ E15/ E30

TECHNICAL SPECS



POWER

Battery Type	Lithium Ion battery
Capacity	1.5 / 3.0 kWh
AC Power	1200 / 2200 W
Depth of Discharge	80%
Output Voltage	110V AC / 230V AC
Operation Tem	-10°C to 40°C / 14°F to 104°F
Relative humidity(%RH)	5%-95% RH
DC Output	Car charger output*1: 12V/10A USB*2: 5V/ 2.1A Type-C*4: 5-20VDC Max output current 3A Max output power 45W
PV input Voltage	12-75V
Max. PV input power	800W(A30/E30),400W(A15/E15)

MISCELLANEOUS

Weight	A15 / A30 : 15 / 32kg E15 / E30 : 18 / 30kg
Dimensions	(H x W x D) A15: 380mm x 350mm x 160mm A30: 480mm x 380mm x 160mm E15: 380mm x 390mm x 165mm E30: 495mm x 390mm x 165mm



INDEPENDENCE

POWER DESIGNED TO SET YOU FREE



PERFECT DESIGN

DAY AND NIGHT POWER CONSUMPTION

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)	5.12	10.24	15.36
Usable Storage Capacity (kWh)	4.6	9.21	13.82
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		

HOME STORAGE SYSTEM SPECIFICATION (N/A)

PV Input	S8	S12	S12
Rated DC power(W)	7800	7800	10400
Max. DC Voltage(V)	500	500	500
MPPT Voltage range(V)	150~450	150~450	150~450
Starting Voltage(V)	200	200	200
Max. DC current(A)	10+10	10+10	18+18
Input String Number	2	2	4
Number of MPPT tracker	2	2	2
Strings per MPPT tracker	1	1	1
AC Output			
Rated AC output and UPS power (W)	6000	6000	8000
Max. AC power (W)	6000	6000	8000
Peak power (off grid)	1.5 times rated power, 10S	1.5 times rated power, 10S	1.5 times rated power, 10S
Continuous output current (A)	25	25	32
Over current protection (A)	50	50	55
Output frequency and voltage	50/60Hz; 120vac & 240Vac	50/60Hz; 120vac & 240Vac	50/60Hz; 120vac & 240Vac
Off grid output range	45~55Hz / 55~65Hz; 180~270Vac, 230Vac ± 2%	45~55Hz / 55~65Hz; 180~270Vac, 230Vac ± 2%	45~55Hz / 55~65Hz; 180~270Vac, 230Vac ± 2%
Current harmonic distortion	50Hz ± 0.2%, THD <3% (Linear loading) <1.5%	50Hz ± 0.2%, THD <3% (Linear loading) <1.5%	50Hz ± 0.2%, THD <3% (Linear loading) <1.5%
Power factor	0.9 Leading ~ 0.9 Lagging	0.9 Leading ~ 0.9 Lagging	0.9 Leading ~ 0.9 Lagging
Grid type	Single phase, Split phase	Single phase, Split phase	Single phase, Split phase

HOME STORAGE SYSTEM SPECIFICATION (N/A)

Battery Terminal	S8	S12	S12
Battery type	Lithium Ion battery	Lithium Ion battery	Lithium Ion battery
Nominal Storage capacity (kWh)	10.24	15.36	15.36
Usable Storage Capacity (kWh)	9.21	13.82	13.82
Battery capacity (Ah)	200	300	300
Battery rated voltage (V)	51.2V	51.2V	51.2V
Voltage range (V)	42-58V	42-58V	42-58V
Max. charge current (A)	120	120	150
Max. discharge current (A)	120	120	150
DOD	90%	90%	90%
Cycle life	6000	6000	6000
Regular Parameters			
Dimension (H x W x D)	1330mm x 750mm x 565mm	1330mm x 750mm x 565mm	1330mm x 750mm x 565mm
Weight (kg)	240Kg	300Kg	300Kg
Display	7" graphic LCD	7" graphic LCD	7" graphic LCD
Communication	CAN ,WIFI	CAN ,WIFI	CAN ,WIFI
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	UL1973, UL9540	UL1973, UL9540	UL1973, UL9540
Warranty	5 Year, Optional 5 year extension		



SOLUNA™

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