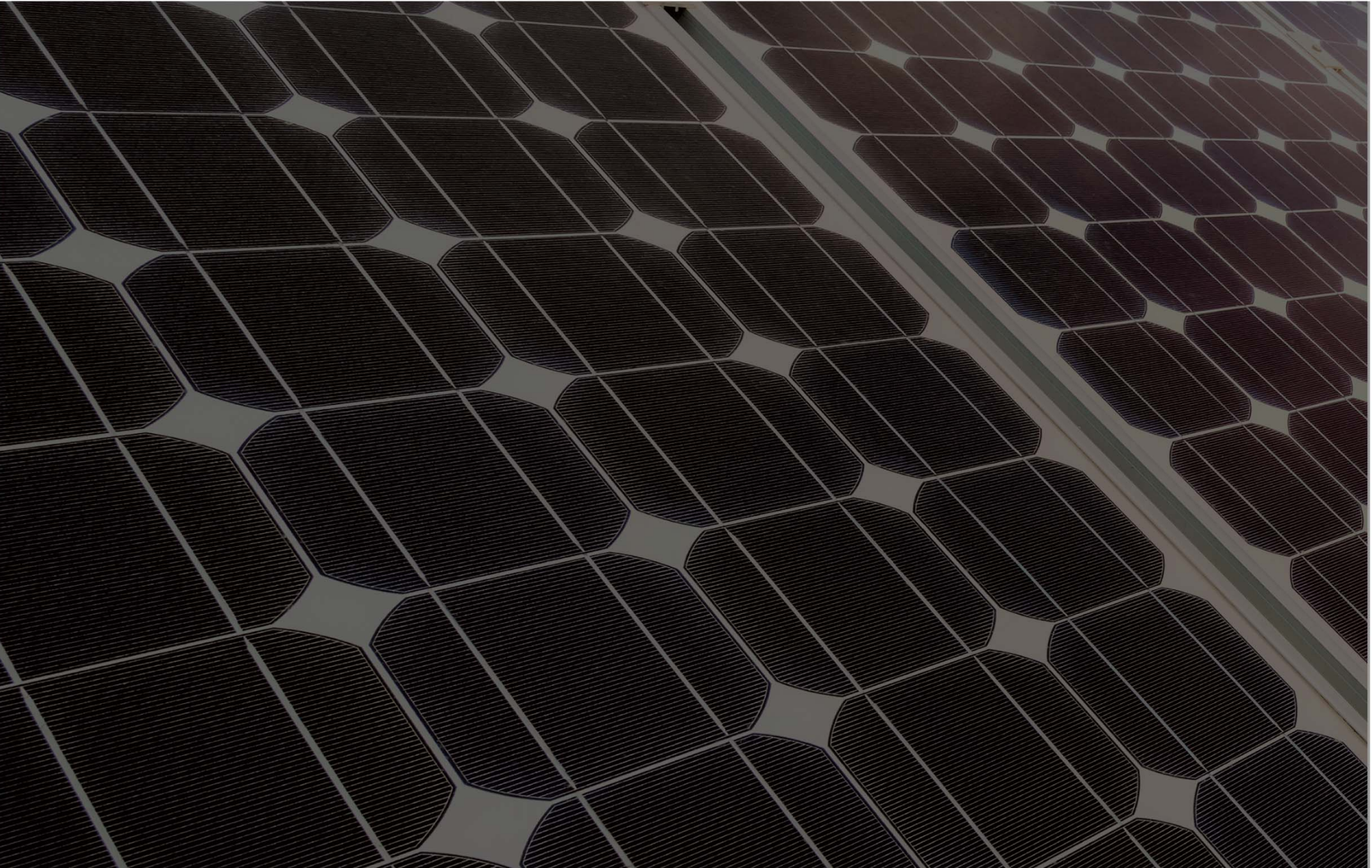


The image features a background of a night sky with a crescent moon and dark, silhouetted clouds. Below the clouds, a city skyline is visible, illuminated with numerous small, warm yellow lights. The Soluna logo is centered in the middle of the image, with the word "SOLUNA" in a white, sans-serif font. The letter "O" is stylized as a circle with a horizontal line through it. A small "TM" trademark symbol is positioned to the upper right of the letter "A".

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.

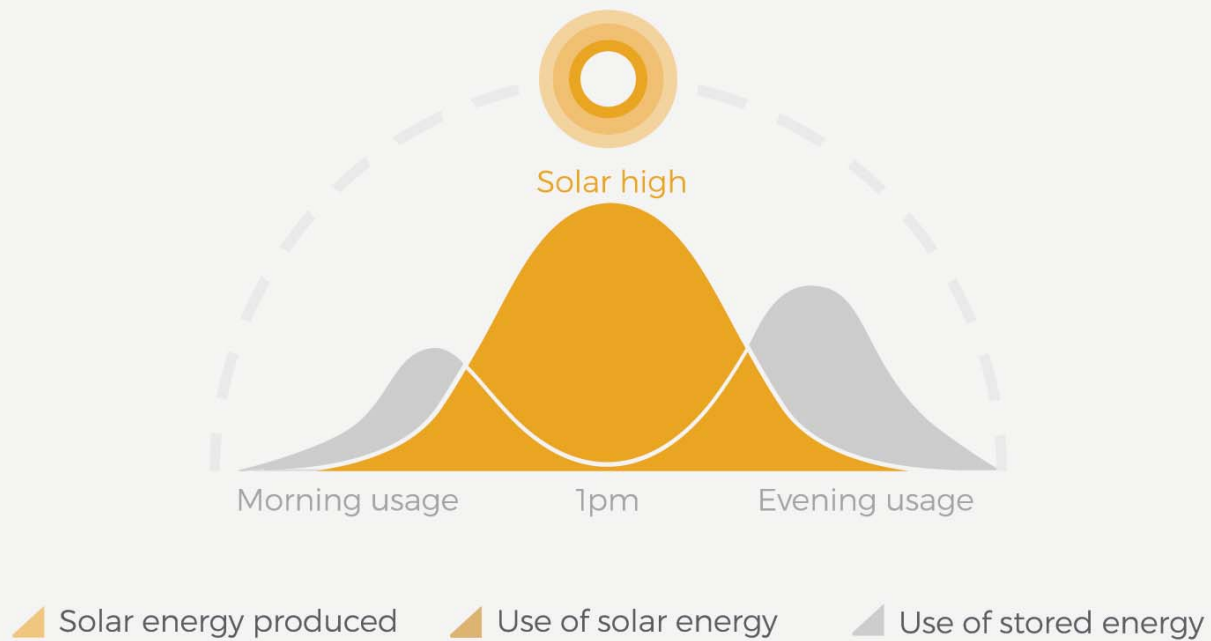


ENVIRONMENT

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.

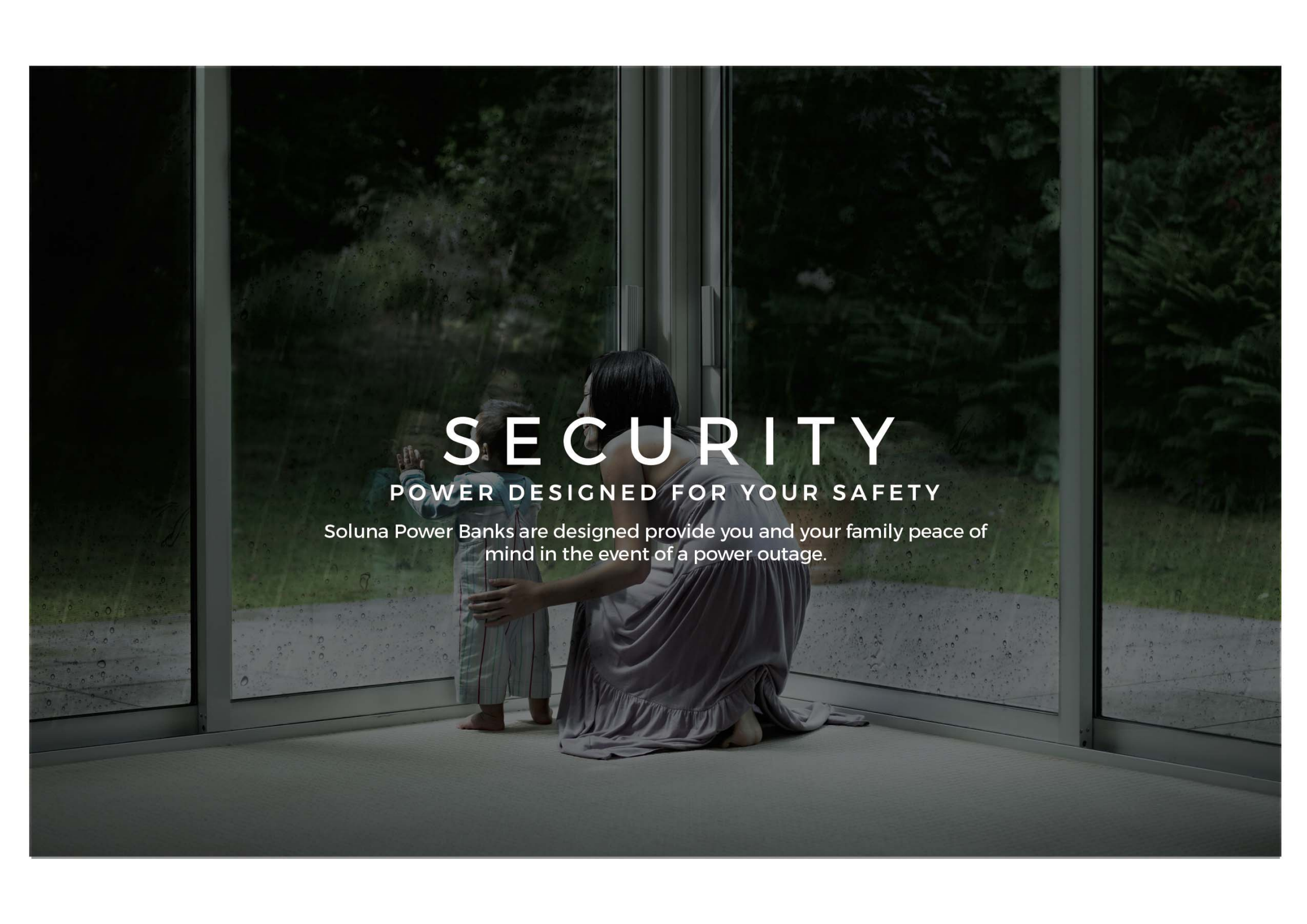


CLEAN AND AFFORDABLE ENERGY

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

A woman in a light-colored dress is kneeling on a carpeted floor, holding the hand of a small child in striped pajamas. They are both looking out a large window that is covered in raindrops. The scene is dimly lit, suggesting it is nighttime or raining heavily. The text 'SECURITY' is overlaid in large white letters, and 'POWER DESIGNED FOR YOUR SAFETY' is overlaid in smaller white letters below it.

SECURITY

POWER DESIGNED FOR YOUR SAFETY

Soluna Power Banks are designed provide you and your family peace of mind in the event of a power outage.

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
- Extruded aluminum housing with premium bead blasted finish
- Height-adjustable threaded appliance-grade feet for stability and level appearance



BATTERY MODULE 3K PACK

TECHNICAL SPECS



POWER

Battery Type	NCM
Capacity	3.1 kWh
Depth of Discharge	80%
Voltage	50.4 V
Certification	Cell: UL1642 Module: Refer to UN38.3 and CE design
Max Charge/Discharge	50 A
Operating Temperature	-10° to 45°C / 14°F to 113°F
Storage Temperature	-30° to 60°C / -22°F to 140°F
Humidity Conditions	5% to 95%

MISCELLANEOUS

Installation	Floor Install in an indoor and/or covered outdoor area, or inside a power bank casing
Weight	27 kg / 59.4 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	LFP
Capacity	3.84 kWh
Depth of Discharge	90%
Voltage	51.2 VDC
Certification	Cell: UL1642 Pack: Refer to UN38.3, UL1973, and IEC62619 design
Max Discharge	75A
Operating Temperature	-10° to 45°C / 14°F to 113°F
Storage Temperature	-30° to 60°C / -22°F to 140°F
Humidity Conditions	5% to 95%

MISCELLANEOUS

Installation	Floor Install in an indoor and/or covered outdoor area, or inside a power bank casing
Weight	56 kg / 123.5 lbs
Dimensions	(H x W x D) 436mm x 630mm x 200mm 17.2" x 24.8" x 7.9"

BATTERY MODULE 15K PACK HV

TECHNICAL SPECS



POWER

Battery Type	NCM
Capacity	15 kWh
Depth of Discharge	80%
Voltage	410 V
Certification	Cell: UL1642 Pack: Refer to UN38.3, UL1973, and IEC62619 design
Max Charge/Discharge	30A
Operating Temperature	-10° to 45°C / 14°F to 113°F
Storage Temperature	-30° to 60°C / -22°F to 140°F
Humidity Conditions	5% to 95%

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	138 kg / 303.6 lbs
Dimensions	(H x W x D) 1200mm x 580mm x 200mm 47.2" x 22.8" x 7.9"
Warranty	5-year standard warranty Optional 5-year extension

POWER BANK S4

TECHNICAL SPECS



POWER

AC Power	3000 W
AC Voltage	230 VAC 50/60 Hz
PV MPPT Voltage	120-450 VDC
Battery Type	LFP
Capacity	3.84 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	60 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: Refer to UN38.3, UL1973, and IEC62619 design
	System: UL9540, EN 62477-1

MISCELLANEOUS

Installation	Floor Install in indoor and/or 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

TECHNICAL SPECS



POWER

AC Power	4600 W / 6000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	120-450 VDC
Battery Type	LFP
Capacity	7.68 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	120 A
DOD	90%
Battery Modules	2
HDMI Interface	7" LCD
Operating Temperature	-10° to 45°C / 14°F to 113°F
Certification	Cell: UL1642
	Pack: Refer to UN38.3, UL1973, and IEC62619 design
	System: UL9540, EN 62477-1

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

TECHNICAL SPECS



POWER

AC Power	4600 W / 6000 W / 8000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	120-450 VDC
Battery Type	LFP
Capacity	11.5 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	150 A
DOD	90%
Battery Modules	3
HDMI Interface	7" LCD
Operating Temperature	-10° to 45°C / 14°F to 113°F
Certification	Cell: UL1642
	Pack: Refer to UN38.3, UL1973, and IEC62619 design
	System: UL9540, EN 62477-1

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

AC Power	30 kW / 60 kW
AC Voltage	380VAC / 400VAC / 415VAC
PV MPPT Voltage	120-450 VDC
Battery Type	NCM
Capacity	35 kWh - 100 kWh
Battery Voltage	200-900 VDC
Max Charge/Discharge	135 A
DOD	80%
Battery Modules	6-16
HDMI Interface	7" LCD
Operating Temperature	-10° to 45°C / 14°F to 113°F
Certification	Cell: UL1642
	Module: Refer to UN38.3, UL1973, and IEC62619 design

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	TBD
Dimensions	(H x W x D) 1960mm x 600mm x 800mm 77.2" x 23.6" x 31.5"
Warranty	5-year standard warranty Optional 5-year extension

A modern interior scene featuring a Soluna power unit, a potted tree, and a sofa. The Soluna unit is a tall, white, rectangular device with the brand name 'SOLUNA' printed near the top. It stands on a light-colored wooden floor. To its left is a potted tree with green leaves in a white pot. To its right is a grey sofa with blue cushions. A large window on the left side of the image shows a view of a balcony and greenery outside. The overall atmosphere is clean and minimalist.

INDEPENDENCE

POWER DESIGNED TO SET YOU FREE

HOME STORAGE SYSTEM SPECIFICATION

PV Input	S4	S8	S12
Max. recommended DC power (W)	3300	5000	5000
Max. DC voltage (V)	500	500	500
Norminal DC operating voltage (V)	360	360	360
MPPT voltage range (V)	120-450	120-450	120-450
Max. input current (A)	13	13/13	13/13
Max. short current (A)	15.6	15.6/15.6	15.6/15.6
Number of MPPT trackers	1	2	2
Strings per MPPT tracker	1	1	1
AC Output			
AC nominal power (W)	3000	4600	4600
Max. AC current (A)	13	20	20
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)	3000/3000	4600/4600	4600/4600
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(LFP)	Lithium(LFP)	Lithium(LFP)
Nominal Storage capacity (kWh)	3.84	7.68	11.52
Usable Storage Capacity (kWh)	3.6	7.2	10.8
Battery capacity (Ah)	75	150	225
Normal voltage (V)	51.2	51.2	51.2
Voltage range (V)	42-58	42-58	42-58
Max. charge current (A)	60A	100	100
Max. discharge current (A)	60A	100	100
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	EN 62477-1	EN 62477-1	EN 62477-1
Warranty	5 Year, Optional 5 year extension		

HOME STORAGE SYSTEM SPECIFICATION (N/A)

PV Input	S8	S12	S12
Rated DC power(W)	6000	6000	8000
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 $\pm$ 2%	45~55Hz / 55~65Hz; 180~270Vac, 230Vac $\pm$ 2%	45~55Hz / 55~65Hz; 180~270Vac, 230Vac $\pm$ 2%
Current harmonic distortion	50Hz $\pm$ 0.2%, THD <3% (Linear load- ing) <1.5%	50Hz $\pm$ 0.2%, THD <3% (Linear load- ing) <1.5%	50Hz $\pm$ 0.2%, THD <3% (Linear load- ing) <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(LFP)	Lithium(LFP)	Lithium(LFP)
Nominal Storage capacity (kWh)	7.68	11.52	11.52
Usable Storage Capacity (kWh)	6.9	10.4	10.4
Battery capacity (Ah)	150Ah	225Ah	225Ah
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	UL1741	UL1741	UL1741
Warranty	5 Year, Optional 5 year extension		

POWER CELL SYSTEM SPECIFICATION

PV Input		Battery Data	
Max. DC power (W)	10000-30000	Battery Type	Lithium(NCM)
Max. DC voltage (V)	500	Nominal Storage Capacity (kWh)	5.9*N
MPPT Voltage range (V)	120-450	Usable Storage Capacity	4.7*N
Max Input Current (A)	13*N	Battery Capacity (Ah)	135
Number of MPPT trackers	2-6	Normal Voltage (V)	43.9*N
AC Output		Voltage Range (V)	200-900
AC Nominal Power (W)	30000/60000	Max. Charge Current (A)	110
Max. AC Current (A)	45/90	Max. Discharge Current (A)	110
Max. AC Short Circuit Current (A)	/	DOD	80%
Max. AC Protection Current (A)	/	Cycle Life	6000
Nominal AC voltage/Range (VAC)	AC380V/400V/415V(3P+PE/3P+N+PE)	Regular Parameters	
Grid Frequency/Range (Hz)	50(45-55) / 60(55-65)	Dimension (H x W x D)	1960mm x 600mm x 800mm
Power Factor (rated power)	/	Weight (kg)	TBD
Displacement Power Factor	/	Display	/
Grid Type	Three Phase (3P+PE/3P+N+PE)	Communication	CAN, Wi-Fi
Total Harmonic Distortion	<3%	Operating Temperature Range (C°)	-10° to +45°
Off-Grid AC Output		Storage Stability Range (C°)	-20° to +60°
Max. AC Power (W)	30000/60000	Relative Humidity	0 - 90%
Off-Grid AC Rated Voltage (V)	AC380V/400V/415V	Altitude (m)	< 2000
AC Nominal Current (A)	45/90	Cooling Methods	Forced Airflow
Frequency (Hz)	50 / 60	Degree of Protection	IP20
Max. AC Short Circuit Current (A)	/	Certificates	TBD
Switching Time (ms)	/	Warranty	5 - Year
Total Harmonic Distortion (THD)	<3%		
Peak Power (Off-Grid) (Time)	125% / 200ms		
Back Current (A)	/		
Grid Type	Three-phase (3P+PE/3P+N+PE)		



SOLUNA™

www.solunabattery.com

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