

The image features a night cityscape with a dark sky, a crescent moon, and large, dark clouds. The city lights are visible at the bottom, creating a bokeh effect. The Soluna logo is centered in the upper half of the image, with the tagline below it.

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.

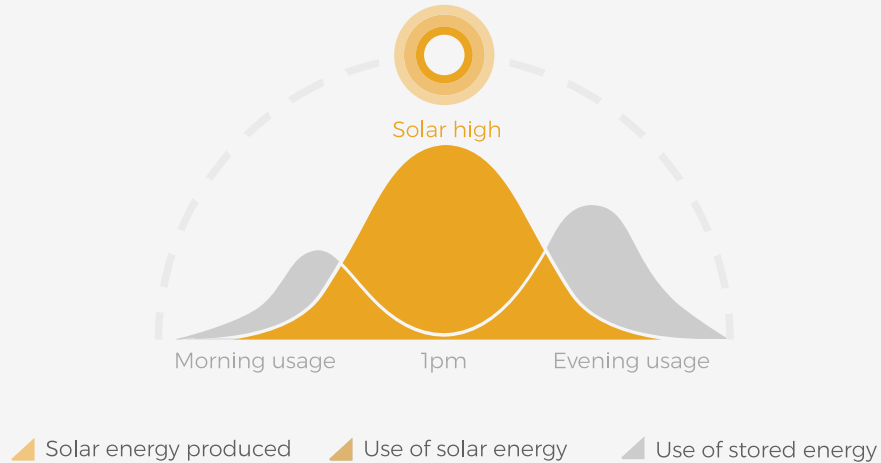


ENVIRONMENT

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.

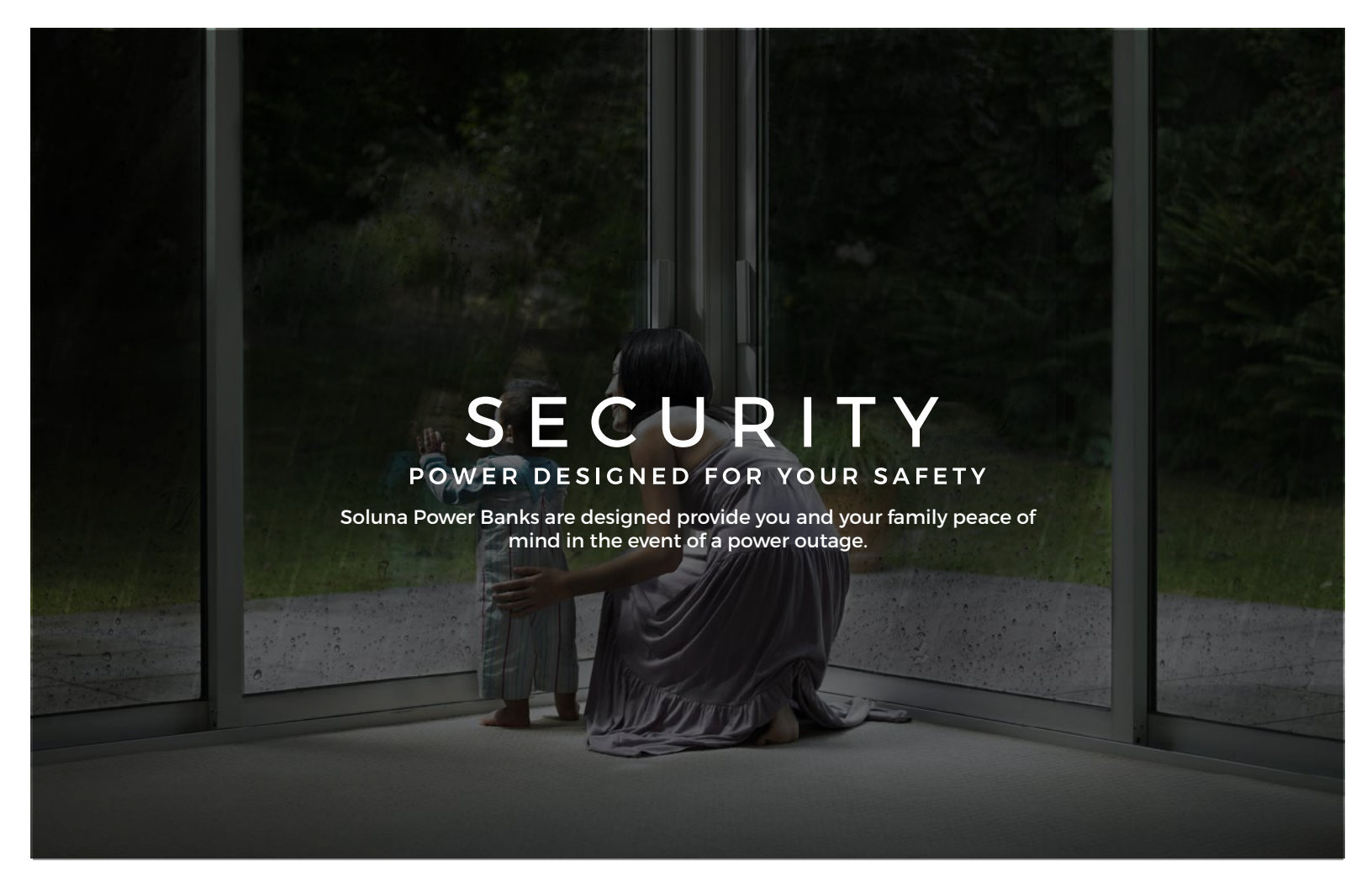


CLEAN AND AFFORDABLE ENERGY

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 who is standing and looking out a large window. The window shows a dark, wooded area outside. The scene is dimly lit, with light coming from the window and the interior lights of the room.

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
- 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: UN38.3 and CE
Max Charge/Discharge	40 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	80%
Voltage	51.2 VDC
Certification	Cell: UL1642 Pack: UN38.3, UL1973, and IEC62619
Max Discharge	50A
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	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 6K PACK HV

TECHNICAL SPECS



POWER

Battery Type	NCM
Capacity	6 kWh
Depth of Discharge	80%
Voltage	194.4 V
Certification	Cell: UL1642
	Pack: UN38.3, UL1973, and IEC62619
Max Charge/Discharge	25A
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	80 kg / 176lbs
Dimensions	(H x W x D) 905mm x 654mm x 227mm 35.6" x 25.7" x 9.0"
Warranty	10-year standard warranty

BATTERY MODULE 10K PACK HV

TECHNICAL SPECS



POWER

Battery Type	NCM
Capacity	10 kWh
Depth of Discharge	80%
Voltage	280 V
Certification	Cell: UL1642 Pack: UN38.3, UL1973, and IEC62619
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	103 kg / 227 lbs
Dimensions	(H x W x D) 905mm x 654mm x 227mm 35.4" x 23.6" x 7.9"
Warranty	10-year standard warranty

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: UN38.3, UL1973, and IEC62619
Max Charge/Discharge	25A
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	148 kg / 326.3 lbs
Dimensions	(H x W x D) 1205mm x 654mm x 227mm 47.2" x 23.6" x 7.9"
Warranty	10-year standard warranty

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	LFP
Capacity	3.84 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	50 A
DOD	80%
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/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	5000 W / 6000 W / 8000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	125-425 VDC
Battery Type	LFP
Capacity	7.68 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	100 A
DOD	80%
Battery Modules	2
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/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

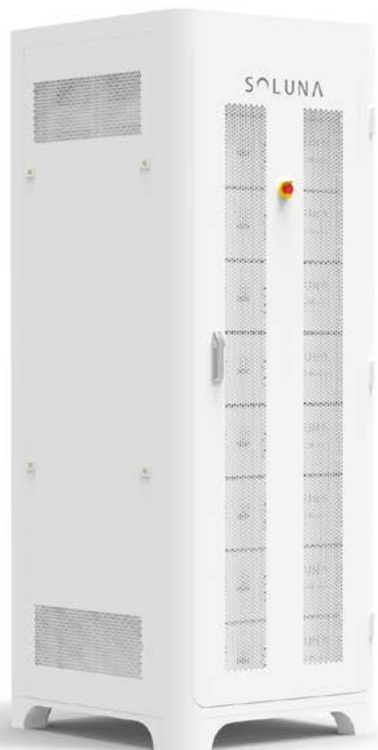
AC Power	5000 W / 6000 W / 8000 W
AC Voltage	230VAC 50/60Hz / 120VAC & 240VAC
PV MPPT Voltage	125-425 VDC
Battery Type	LFP
Capacity	11.5 kWh
Battery Voltage	51.2 VDC
Max Charge/Discharge	100 A
DOD	80%
Battery Modules	3
HDMI Interface	7" LCD
Operating Temperature	-10° to 45°C / 14°F to 113°F
Certification	Cell: UL1642 Pack: UN38.3, UL1973, and IEC62619 System: UL9540, IEC/EN 62109

MISCELLANEOUS

Installation	Floor Install in indoor and/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 / 50 kW / 100 kW
AC Voltage	400VAC / 415VAC / 480VAC
PV MPPT Voltage	520-800 VDC
Battery Type	LFP
Capacity	50 kWh / 100 kWh / 150 kWh
Battery Voltage	250-850 VDC
Max Charge/Discharge	100 A
DOD	80%
Battery Modules	7-21
HDMI Interface	LCD
Operating Temperature	-10° to 50°C / 14°F to 122°F
Certification	Cell: UL1642 Module: UN38.3, UL1973, and IEC62619 Inverter: UL1741, UL9540, CE LVD, CE EMC, IEC 61000

MISCELLANEOUS

Installation	Indoors / Outdoors
Weight	TBD
Dimensions	TBD

Warranty	5-year standard warranty Optional 5-year extension
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INDEPENDENCE

POWER DESIGNED TO SET YOU FREE

HOME STORAGE SYSTEM SPECIFICATION

PV Input	S4	S8	S12
Max. recommended DC power (W)	3960	6500	6500
Max. DC voltage (V)	500	500	500
Normal 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(LFP)	Lithium(LFP)	Lithium(LFP)
Nominal Storage capacity (kWh)	3.84	7.68	11.52
Usable Storage Capacity (kWh)	3.07	6.14	9.22
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)	50 A	100 A	100 A
Max. discharge current (A)	50 A	100 A	100 A
DOD	80%	80%	80%
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 $\pm$ 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 loading) <1.5%	50Hz $\pm$ 0.2%, THD <3% (Linear loading) <1.5%	50Hz $\pm$ 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(LFP)	Lithium(LFP)	Lithium(LFP)
Nominal Storage capacity (kWh)	7.68	11.52	11.52
Usable Storage Capacity (kWh)	6.14	9.22	9.22
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	80%	80%	80%
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		

POWER CELL SYSTEM SPECIFICATION

PV Input		Battery Data	
Max. DC power (W)	60,000-100,000	Battery Type	Lithium(LFP)
Max. DC voltage (V)	900	Nominal Storage Capacity (kWh)	7.5*N
MPPT Voltage range (V)	520-800	Usable Storage Capacity	6*N
Max Input Current (A)	116/192	Battery Capacity (Ah)	200
Number of MPPT trackers	1	Normal Voltage (V)	38.4*N
AC Output		Voltage Range (V)	250-850
AC Nominal Power (W)	30,000/50,000/100,000	Max. Charge Current (A)	100
Max. AC Current (A)	44/72	Max. Discharge Current (A)	100
Max. AC Short Circuit Current (A)	/	DOD	80%
Max. AC Protection Current (A)	/	Cycle Life	6,000
Nominal AC voltage/Range (VAC)	400V (± 15%)	Regular Parameters	
Grid Frequency/Range (Hz)	50 / 60 (± 2.5Hz)	Dimension (H x W x D)	TBD
Power Factor (rated power)	/	Weight (kg)	TBD
Displacement Power Factor	/	Display	/
Grid Type	Three Phase (3P+PE/3P+N+PE)	Communication	CAN, Wi-Fi, 4G
Total Harmonic Distortion	<3%	Operating Temperature Range (C°)	-10° to +50°
Off-Grid AC Output		Storage Stability Range (C°)	-20° to +50°
Max. AC Power (W)	30,000/50,000/100,000	Relative Humidity	0 - 90%
Off-Grid AC Rated Voltage (V)	400VAC / 415VAC / 480VAC	Altitude (m)	< 2000
AC Nominal Current (A)	44/72	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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