

SVOLT

Storage Expert Best Know Battery



Lithium Battery Series

LFP-2.71kWh/5.09kWh/5.43kWh



World Top 10
Of Cell Manufacturer



Car Standard
A Grade Cell



6% Higher
Capacity



Market Value Over
\$10 Billion



5 Years
Warranty



Cell Recycle
After 10 Years

Product Parameters



Technical Specification

Energy	2.71Kwh
Installation Type	Wall Mounted
Battery Type-chemistry	Lifepo4
Nominal Voltage	25.6V
Nominal Capacity	106Ah
Energy Density	2713.6Wh
Dimensions(Lxwxh)	419*350*154mm
Weight (Approx.)	25.4Kgs
Terminal Type	Feed-through Terminal
Terminal Torque	/
Case Material	Spcc
Bms Build-in	Yes
Internal Resistance	<25MΩ
Efficiency- Round Trip	>99%
Self Discharge Per Month	<3%
Max. Parallel Connection	4Pcs
Max.series Connection	2Pcs
Cycle Life (0.3c,25°C@90%dod)	>6000Cycles
Discharge Temperature	(- 20 To 65)°c
Charge Temperature	(0 To 50)°c
Storage Temperature	(-10 To 30)°c
Bluetooth(App)	Optional
Lcd Screen	Yes
Heating Function	Optional
Operating Voltage Range	21.6-28.8V
Recommend Charge Voltage	25.4±0.20v
Max Charge Voltage	29.2±0.20v
Recommend Charge Current	20A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	22.4±0.20v
Max Discharging Voltage	20.8±0.20v
Max Continuous Discharge Current	100A
Peak Discharge Current	130A

Product Parameters

LFP-2.71kWh



BATTERY SPECIFICATIONS

Energy	2.71kWh
Installation Type	Wall Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	25.6V
Norminal Capacity	106Ah
Dimensions(LxWxH)	448*350*154mm
Weight (Approx.)	28KGS
Terminal Type	Fast Plug In & Plug Out
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6,000 cycles
Discharge Temperature	-20°C to 70°C
Charge Temperature	-5°C to 65°C
Storage Temperature	0°C to 30°C
Bluetooth(App)	Optional
LCD Screen	Yes
Heating Function	Optional
Operating Voltage Range	21.6V-28.8V
Recommend Charge Voltage	28.0V±0.2V
Max Charge Voltage	29.2V±0.2V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	22.4V±0.2V
Max Discharging Voltage	21.6V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



Product Parameters

LFP-5.09kWh(S type)



BATTERY SPECIFICATIONS

Energy	5.09kWh
Installation Type	Wall Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	48V
Norminal Capacity	106Ah
Dimensions(LxWxH)	510*475*160mm
Weight (Approx.)	45.6KGS
Terminal Type	Fast Plug In & Plug Out
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6,000 cycles
Discharge Temperature	-20°C to 70°C
Charge Temperature	-5°C to 65°C
Storage Temperature	0°C to 30°C
Bluetooth(App)	Optional
LCD Screen	Yes
Heating Function	Optional
Operating Voltage Range	40.5V-54V
Recommend Charge Voltage	52.5V±0.2V
Max Charge Voltage	54.75V±0.20V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	42.0V±0.2V
Max Discharging Voltage	40.5V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



UPS



Product Parameters

LFP-5.09kWh(R type)



BATTERY SPECIFICATIONS

Energy	5.09kWh
Installation Type	Wall Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	48V
Norminal Capacity	106Ah
Dimensions(LxWxH)	598*360*155mm
Weight (Approx.)	44.6KGS
Terminal Type	Fast Plug In & Plug Out
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6,000 cycles
Discharge Temperature	-20°C to 70°C
Charge Temperature	-5°C to 65°C
Storage Temperature	0°C to 30°C
Bluetooth(App)	Optional
LCD Screen	Yes
Heating Function	Optional
Operating Voltage Range	40.5V-54V
Recommend Charge Voltage	52.5V±0.2V
Max Charge Voltage	54.75V±0.20V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	42.0V±0.2V
Max Discharging Voltage	40.5V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



UPS



Product Parameters

LFP-5.43kWh(S type)



BATTERY SPECIFICATIONS

Energy	5.43kWh
Installation Type	Wall Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	51.2V
Norminal Capacity	106Ah
Dimensions(LxWxH)	510*475*160mm
Weight (Approx.)	45.6KGS
Terminal Type	Fast Plug In & Plug Out
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6,000 cycles
Discharge Temperature	-20°C to 70°C
Charge Temperature	-5°C to 65°C
Storage Temperature	0°C to 30°C
Bluetooth(App)	Optional
LCD Screen	Yes
Heating Function	Optional
Operating Voltage Range	43.2V-57.6V
Recommend Charge Voltage	56.0V±0.2V
Max Charge Voltage	58.4V±0.2V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	44.8V±0.2V
Max Discharging Voltage	43.2V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



UPS



Product Parameters

LFP-5.43KWh(R type)



BATTERY SPECIFICATIONS

Energy	5.43kWh
Installation Type	Wall Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	51.2V
Norminal Capacity	106Ah
Dimensions(LxWxH)	598*360*155mm
Weight (Approx.)	44.6KGS
Terminal Type	Fast Plug In & Plug Out
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6,000 cycles
Discharge Temperature	-20°C to 70°C
Charge Temperature	-5°C to 65°C
Storage Temperature	0°C to 30°C
Bluetooth(App)	Optional
LCD Screen	Yes
Heating Function	Optional
Operating Voltage Range	43.2V-57.6V
Recommend Charge Voltage	56.0V±0.2V
Max Charge Voltage	58.4V±0.2V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	44.8V±0.2V
Max Discharging Voltage	43.2V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



Product Parameters

48V106Ah LiFePO4 Battery Module



BATTERY SPECIFICATIONS

Energy	5.09kWh
Installation Type	Rack Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	48V
Norminal Capacity	106Ah
Dimensions(LxWxH)	566*362*135mm
Weight (Approx.)	42KGS
Terminal Type	M6
Terminal Torque	8.5NM
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6000 Cycles
Discharge Temperature	- 20 °C to 70°C
Charge Temperature	-5 °C to 65 °C
Storage Temperature	0 °C to 30 °C
Bluetooth(App)	Optional
LCD Screen	Optional
Heating Function	Optional
Operating Voltage Range	40.5V-54V
Recommend Charge Voltage	52.5V±0.2V
Max Charge Voltage	54.75V±0.20V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	42.0V±0.2V
Max Discharging Voltage	40.5V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



UPS



Product Parameters

51.2V106Ah LiFePO4 Battery Module



BATTERY SPECIFICATIONS

Energy	5.43kWh
Installation Type	Rack Mounted
Battery Type-Chemistry	LiFePO4
Norminal Voltage	51.2V
Norminal Capacity	106Ah
Dimensions(LxWxH)	566*362*135mm
Weight (Approx.)	44KGS
Terminal Type	M6
Terminal Torque	8.5NM
Case Material	SPCC
BMS Build-in	Yes
Internal Resistance	<25mΩ
Efficiency – Round Trip	>97%
Self Discharge Per Month	<3%
Max Parallel Connectors	16Pcs
Series Connections	Not Allowed
Cycle Life(0.3C,25°C@90%DOD)	>6000 Cycles
Discharge Temperature	- 20 °C to 70°C
Charge Temperature	-5 °C to 65 °C
Storage Temperature	0 °C to 30 °C
Bluetooth(App)	Optional
LCD Screen	Optional
Heating Function	Optional
Operating Voltage Range	43.2V-57.6V
Recommend Charge Voltage	56.0V±0.2V
Max Charge Voltage	58.4V±0.2V
Recommend Charge Current	50A
Max Continuous Charge Current	100A
Recommend Discharge Voltage	44.8V±0.2V
Max Discharging Voltage	43.2V±0.2V
Max Continuous Discharge Current	100A
Peak Discharge Current	150A (100ms)

APPLICATIONS



The SVOLT logo is displayed in a bold, white, sans-serif font against a dark blue background.

Residential ESS

All In One Energy Storage System
SVOLT Battery Solutions



Safety

SVOLT LFP Battery, stable and safe
Module, pack, system, triple protection
IP65, outdoor installation, away from living room



Simple

Modular design, single person can carry and
install it. Plug and play, 30 min quick installation
Space saving; 0.15 sq. m foot print



Intercon-
nection

Global cloud platform & Mobile APP
anytime and any where
Open API, support power internet applications

Battery Model

Physical	Battery type	LFP (LiFePO4)
	System Weight	54KG
	Dimension (W x D x H)	540*490*240
	IP Protection	IP65
	Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	Energy Capacity	5.12kwh
	Usable Capacity	4.6kwh
	Depth of Discharge (DoD)	90%
	Normal Voltage	51.2V
	DC Circuit Breaker	125A
	Operating Voltage Range	44.8-56.5V
	Internal Resistance	<20mΩ
	Cycle Life	10000cycle

PACK5.1

Operation	Max. Charge/Discharge Current	50A/80A
	Rated DC power	4096W
	Max. Charge/Discharge Power	2825W/4096W
	Operating Temperature Range	-10 to 50°C charging -10 to 50°C discharging
	Humidity	0~95% (No condensation)
BMS	Modules Connection	Max. 4
	Capacity	100-400Ah
	Power Consumption	<2W
	Communication	CAN & RS485
	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Certificate	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973

*Maximum 4 battery pack in parallel.

Hybrid Inverter Model

3680D

5000D

PV String Input	Max. DC Voltage	580V	580V
	Norminal Voltage	400V	400V
	MPPT Voltage Range	80V-560V	80V-560V
	Start Voltage	150V	150V
	Number of MPPT Tracker	2	2
	Strings Per MPPT Tracker	1	1
	Max. Input Current Per MPPT	15A	15A
	Max. Short-circuit Current Per MPPT	18A	18A
AC Output (Grid)	Norminal AC Output Power	3680W	5000W
	Max. AC Apparent Power	7360VA (from grid)	7360VA (from grid)
	Max. AC Output Power	3680W	5000W ¹
	Norminal AC Voltage	230Vac	230Vac
	AC Grid Frequency Range	50 / 60Hz±5Hz	50 / 60Hz±5Hz
	Max. Output Current	16A	22A ²
	Max. Input Current	32A	32A
	Power Factor (cosΦ)	0.8leading-0.8lagging	0.8leading-0.8lagging
Battery Input	THDi	<3%	<3%
	Battery Type	LFP (LiFePO4)	LFP (LiFePO4)
	Norminal Battery Voltage	48V	48V
	Charging Voltage Range	40-60V	40-60V
	Max. Charging Current	50A	100A
	Max. Discharging Current	80A	100A
	Battery Capacity	100-400Ah	100-400Ah
	Charging Strategy for Li-ion Battery	Depend on the BMS	Depend on the BMS
AC Output (Backup)	Max. Output Apparent Power	4000VA	5000VA
	Peak Output Apparent Power	6900VA 10sec	6900VA 10sec
	Max. Output Current	16A	20A
	Norminal Output Voltage	230V	230V
	Norminal Output Frequency	50/60Hz	50/60Hz
	Output THDv (@Linear Load)	<3% (Linear Load)	<3% (Linear Load)
Efficiency	Max. PV Efficiency	97.6%	97.6%
	Euro. PV Efficiency	97.0%	97.0%
Protection	DC Switch	Bipolar DC Switch (125A/Pole)	Bipolar DC Switch (125A/Pole)
	Anti-islanding Protection	Yes	Yes
	Output Over Current	Yes	Yes
	DC Reverse Polarity Protection	Yes	Yes
	String Fault Detection	Yes	Yes
	AC/DC Surge Protection	DC Type II;AC Type III	DC Type II;AC Type III
	Insulation Detection	Yes	Yes
	AC Short Circuit Protection	Yes	Yes
General Specifications	Dimensions W x H x D	540*590*240mm	
	Weight	32kg	
	Operating Temperature Range	-25°C~+60°C	
	Noise (dB)	<25	
	Cooling Type	Natural Convection	
	Max. Operation Altitude	2000m	
	Operation Humidity	0~95% (No Condensation)	
	IP Class	IP65	
	Topology	Battery Isolation	
	Communication	RS485/CAN2.0/WIFI/4G	
	Display	LCD/APP	
Certification & Standard		IEC/EN 62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3; IEC/EN61000-6-4;IEC/EN61000-3-11; EN61000-3-12;IEC60529;IEC 60068;IEC61683;IEC62116;IEC61727;EN50549-1; AS 4777.2;NRS 097;VDE-AR-N-4105;CEI0-21;G98;G99;C10/C11	

*1. Norminal AC output power is 4999W for Australia and 4600W for Germany and South Africa.

*2. Maximum output current is 21.7A for Australia and 20A for Germany and South Africa.

SO-iKran series ePowercube

Residential ESS



Active Detection
To Prevent Failures
And Danger



Low Noise
<40dB



Switching Time
<20ms



IP65



Remote Control

Inverter Specifications

AE5K-L-S



Input(PV)	Max. PV Input Power	7kW
	Max. PV Input Voltage	500V
	MPPT Voltage Range	125V~550V
	Short-circuit Current	17.5A*2
	Max. PV Input Current	14A*2
	Number of MPP Trackers / String per MPPT	2/1
Output(AC)	Max. Output Current	21.7A
	Rated Power	4.6kVA
	Operating Voltage Range	230Vac/176~270Vac
	Frequency	50Hz/ 60Hz
	Power Factor	Cos ϕ 0.9
	THDi	<3%(Specific grid environment)
Output(EPS)	Type of grid connenction	L+N+PE
	Rated Power	5kVA
	Rated Voltage	230Vac
	Rated Current	21.7A
	Rated Frequency	50Hz / 60Hz
	Automatic Switch Time	<20ms
	Overload Capability	105-110%, 30S、110-120%, 10S
	THDU	<2%
Efficiency	Max.DC Efficiency	97.60%
	European Efficiency	97%
	MPPT Efficiency	99.90%
	Battery Charge / Discharge Efficiency	95%
Communication	Display	LCD
	Communication	RS485 / WIFI / 4G / CAN / DRM (One of these options is available)
General Data	Dimensions (W x H x D)	550 x 500 x 200 mm
	Weight	25kg
	Operation Temperature	-25°C~60°C
	Cooling Method	Natural Cooling
	Protection Degree	IP65
	Noise Emission	<40dB
	Max. Operating Altitude	No derating below 2000m
	Relative Humidity	5~95% (non-condensing)
	Standby Power Comsuption(W)	15~25

Battery Specifications

EA31A-5.3K-A



BATTERY UNIT	Operating Voltage(V)	51.2
	Operating voltage Range(V)	40-58v
	Total Capacity(kWh)	5.32
	Usable Capacity(kWh)	5.0
	Rated capacity(Ah)	104
	Recommend charge/discharge current(A)	50/50
	Max.charge/discharge current(A)	100/100
	Cycle life(0.3C, 70%EOL, 90%DOD)	>6,000 cycles
	Expected life time/Warranty(Year)	10/5
	Operating temperature range(°C)	Charging temperature: 0-50°C Discharge temperature: -20-50°C
	Storage temperature(°C)	0-35°C
	Humidity(%)	5-95%
	Altitude(m)	2000
	Ingress protection	IP65
	System to inverter communication/Communication with BMS	CAN
	Master LED indicator	LED
	Safety certificate	IEC/EN 62619,IEC 63056
	EMC	IEC61000-6-1,IEC61000-6-3
	Dimensions(L*W*H) mm	550*550*195
	Weight(kg)	54
GENERAL DATA	Cooling	Natural

SVOLT

6kW Low Voltage Single Phase Hybrid Inverter



Support 4 parallel machines



Switching time of
on / off-grid $\leq 20\text{ms}$



Compatible with lead-acid and
lithium-ion battery



Strong impact load capacity
of off-grid

Product Parameters

ME01-PH-SV6KWL1

Input (PV)

Max. Power(kW)	7
Max. DC Voltage(V)	550
MPPT Voltage Range(V)	125~500
Max.input Current of Single MPPT(A)	14
MPPT Tracker/strings	2/1

AC Output

Rated Output Power(kVA)	6
Max. Output Current(A)	26
Grid Voltage/range(Vac)	230/176~270
Frequency (Hz)	50 / 60
PF	0.8lagging-0.8leading
THDi	<3%
AC Output Topology	L+N+PE

Battery

Battery Voltage Range(V)	40~58
Max. Charging Voltage(V)	58
Max. Charge/discharge Current(A)	95/110
Battery Type	Lithium /lead-acid
Communication Interface	CAN/RS485

EPS Output

Rated Power(kVA)	6
Rated Output Voltage(VAC)	230
Rated Output Current(A)	26
Rated Frequency(Hz)	50 / 60
Automatic Switching Time(Ms)	<20
THDu	<2%
Overload Capacity	110%, 30s/120%, 10s/150%, 0.02s

General Data

Battery Chage/discharge Efficiency	95.0%
DC Max. Efficiency	97.6%
Europe Efficiency	97.0%
MPPTefficiency	99.9%
Ingress Protection	IP65
Noise Emission (dB)	<40
Operation Temperature (°C)	-25 ~ 60
Cooling	Natural
Relative Humidity	0~95% (Non-condensing)
Altitude	2,000m(>2,000 Derating)
Dimensions W*D*H(mm)	550*200*515
Weight (Kg)	25
Isolation Transformer	No
Self-consumption (W)	<10

Display And Communication

Display	LCD
Interface:RS485/WIFI/4G/CAN/DRM	Yes/opt/opt/yes/yes
Safety Standard	IEC/EN62109-1/-2
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3
On-grid	South Africa NRS097-2-1:2017, UK G98,G99,EN 50549-1,Italy CEI 0-21, Germany VDE4105,IEC61727/62116/61683, Sweden EIFS 2018: 2

8kW Low Voltage Single Phase Hybrid Inverter



Support 6 machines
in parallel.



Support battery BMS
remote upgrade.



Support remote monitoring
upgrade and automatic
battery management.



In case of off-grid,
it can guarantee
the critical load.

Product Parameters

ME01-PH-SV8KWL1

Input (PV)

Max. Power(kW)	12
Max. DC Voltage(V)	500
MPPT Voltage Range(V)	120~500
Max.input Current of Single MPPT(A)	14
MPPT Tracker/strings	4/1

AC Output

Rated Output Power(kVA)	8
Max. Apparent Power (kVA)	8.8
Max. Output Current(A)	38.3
AC Output Voltage(VAC)	220,230,240
Frequency (Hz)	50/60
PF	0.8lagging-0.8leading
THDi	<3%
AC Output Topology	L+N+PE

Battery

Battery Voltage Range(V)	40~58
Max. Charging Voltage(V)	58
Max. Charge/discharge Current(A)	190/190
Battery Type	Lithium /lead-acid
Communication Interface	CAN/RS485

EPS Output

Rated Power(kVA)	8
Rated Output Voltage(VAC)	220,230,240
Rated Output Current(A)	34.8
Rated Frequency(Hz)	50/60
Automatic Switching Time(Ms)	<20
THDu	<2%
Overload Capacity	125%,60s/150%,1s

General Data

Battery Chage/discharge Efficiency	97.2%
MPPT Efficiency	99.9%
DC Max. Efficiency	≥98.2%
Europe Efficiency	97.8%
Ingress Protection	IP65
Operation Temperature (°C)	-25 ~ 60
Noise Emission(dB)	<29
Cooling	Forced Air
Relative Humidity	0~95% (Non-condensing)
Altitude	2,000m(>2,000 Derating)
Dimensions W*D*H (mm)	460*225*760
Weight(Kg)	41
Isolation Transformer	No
Self-consumption(W)	<10

Display And Communication

Display	LCD, Touch Screen
Interface:RS485/WIFI/4G/CAN/DRM	Yes
Safety Standard	IEC/EN62109-1/-2
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3
On-grid	South Africa NRS097-2-1:2017, UK G98,G99,EN 50549-1,Italy CEI 0-21, Germany VDE4105,IEC61727/62116/61683, Sweden EIFS 2018: 2