



Optimal Energy Solutions –

Building a Sustainable Future Together



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Catalogue



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About OES

As a leader in renewable energy storage and the exclusive representative of SVOLT Energy Technology in Eastern Europe, we bring innovation, reliability, and sustainability to every project.

Exclusive Representation of SVOLT Energy Technology in Eastern Europe

SVOLT Energy Technology

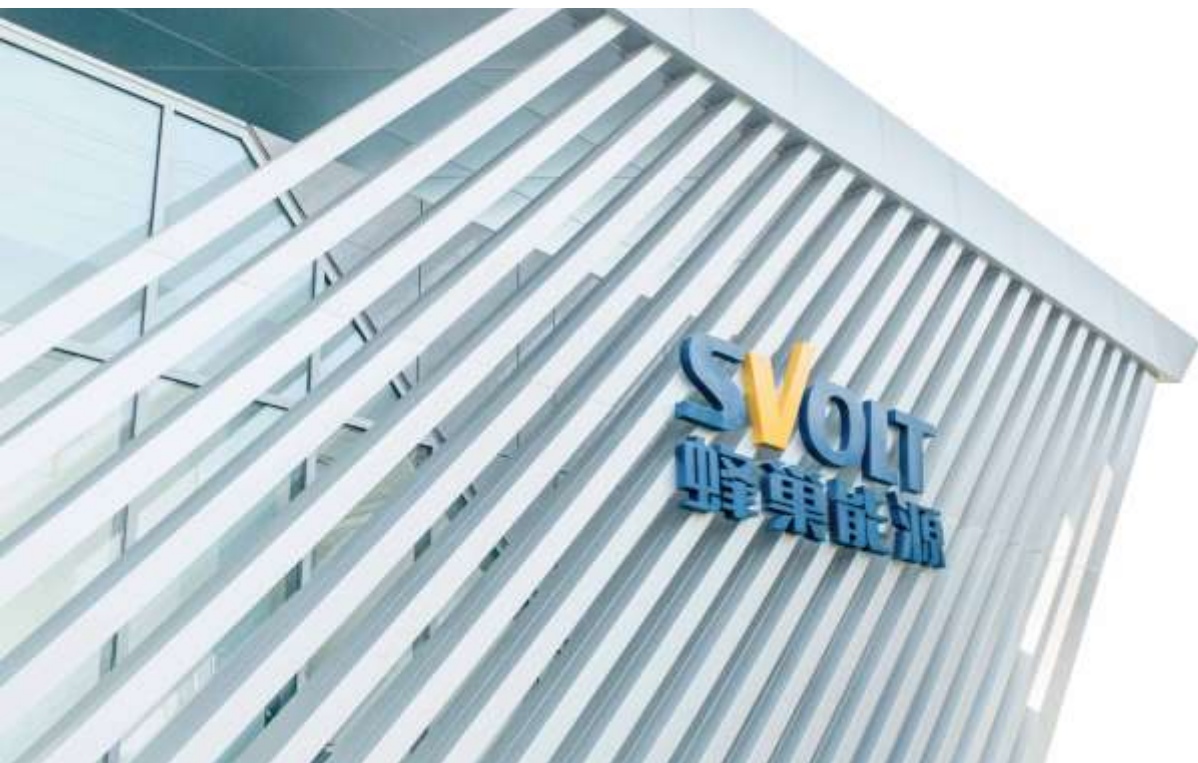
SVOLT Energy Technology specializes in advanced battery storage solutions, enhancing the sustainability of energy systems.

Sustainable Energy Solutions

Our offerings include innovative energy solutions that contribute to a more sustainable future through advanced technology.

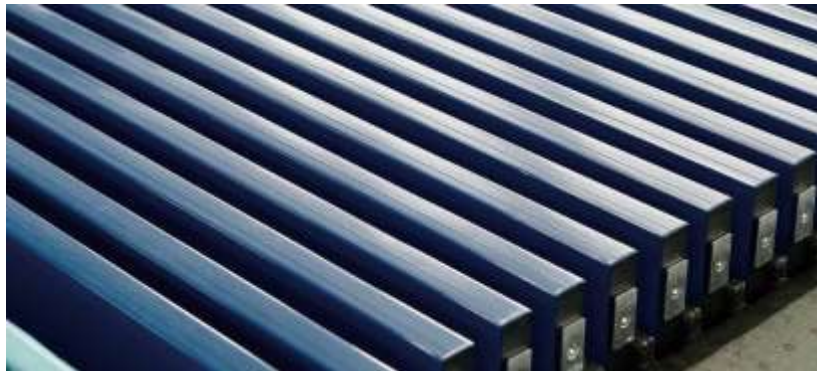
Eastern Europe Representation

We are proud to represent SVOLT in Eastern Europe, bringing cutting-edge battery technology to the region.







Product Portfolio

L600 Short Blade Cells



L600 Short Blade Cells can be applied to vehicles ranging from **A0 to B Class** and above by adjusting their thickness. The battery pack energy can reach **50-100kWh**, enabling a mainstream range of **400-700km**.

Vehicle	Electricity	Range
A0 CLASS ~ B CLASS	50-100kWh	400-700KM

Cells	196 Ah	147 Ah	164.5 Ah	135.5 Ah
				
	22*574*118 (mm)	16*574*120 (mm)	18*574*120 (mm)	15*574*120 (mm)
Cathode Material	LFP	LFP	LFP	LFP
Type	L600	L600	L600	L600
Voltage Range (V)	2.0~3.65	2.0~3.65	2.0~3.65	2.0~3.65
Standard Voltage(V)	3.19	3.19	3.19	3.19
Energy Density (Wh/kg)	>185	>187	>188	>184
Energy Density (Wh/L)	>423	>415	>418	>404
Fast Charging (Min)	26 (10~80%SOC)	20 (10~80%SOC)	20 (10~80%SOC)	20 (10~80%SOC)
Cycle Life (25°C)	>2000	>2500	>2500	>2500



Cells

105.5 Ah



15*579*92 mm

162 Ah



18*574*120 mm

160 Ah



18*580*120 mm

143.5Ah



15*585*92 mm

Cathode Material	LFP	LFP	LFP	LFP
Type	L600	L600	L600	L600
Voltage Range (V)	2.0~3.65	2.0~3.65	2.0~3.65	2.0~3.8
Standard Voltage(V)	3.19	3.21	3.2	3.21
Energy Density (Wh/kg)	>187	>190	>188	>183
Energy Density (Wh/L)	>415	>421	>410	>406
Fast Charging (Min)	20 (10~80%SOC)	15 (10~80%SOC)	29 (3~80%SOC)	10 (10~80%SOC)
Cycle Life (25°C)	>2500	>2000	>4000	>2000



Product Portfolio

L500 ESS Short Blade Cells



L500 ESS Short Blade Cells adopt the Gen 3 short blade fast stacking 3.0 technology. High safety, ultra-long life and high rate discharge are the inevitable development trends of future LFP products.

Cells

350 Ah



26*500*215 mm

325 Ah



26*500*215 mm

Cathode Material	LFP	LFP
Type	L500	L500
Voltage Range (V)	2.5~3.65	2.5~3.65
Standard Voltage(V)	3.2	3.2
Energy Density (Wh/kg)	>171	>165
Energy Density (Wh/L)	>400	>372
Fast Charging (Min)	120 (5~80%SOC)	120 (5~80%SOC)
Cycle Life (25°C)	8000~11000	9000~12000





Product Portfolio

L400 PHEV Short Blade Cells



L400 PHEV Short Blade Cells adopt the Gen3 short blade rapid stacking 3.0 technology, with long service life, high energy density and better consistency.

The product is capable of achieving fast charging at a rate of 2.2C, and it can be seamlessly integrated with CTP design to provide an extended range.

Cells	62 Ah	90 Ah
		
	14*409*88 mm	15*409*121 mm

Cathode Material	LFP	LFP
Type	L400	L400
Voltage Range (V)	2.0~3.65	2.0~3.65
Standard Voltage(V)	3.13	3.13
Energy Density (Wh/kg)	>170	>172
Energy Density (Wh/L)	>380	>398
Fast Charging (Min)	20 (10~80%SOC)	20 (10~80%SOC)
Cycle Life (25°C)	>3000	>3000








Product Portfolio

L300 Short Blade Cells



L300 PHEV Short Blade Cells are compatible with NCM and LFP chemistries, with fast-charging performance. They are capable of meeting the demanding requirements of 800V/4C and 400V/2.2C.

Vehicle B-CLASS AND ABOVE HIGH-END	Electricity(NCM) 100-120kWh	Range 500-800KM
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Cells	213Ah	149 Ah	154Ah	160 Ah	108 Ah
					
	50*300*112 (mm)	30*300*112 (mm)	30*300*112 (mm)	30*300*112 (mm)	24*252*115 (mm)

Cathode Material	LFP	NCM	NCM	NCM+GR	NCM
Type	L300	L300	L300	L300	L300
Voltage Range (V)	2.0~3.65	2.8~4.4	2.8~4.4	2.8~4.4	2.8~4.4
Standard Voltage(V)	3.22	3.77	3.76	3.75	3.76
Energy Density (Wh/kg)	>185	>240	>240	>250	>250
Energy Density (Wh/L)	>408	>547	>560	>585	>578
Fast Charging (Min)	26 (10~80%SOC)	12 (10~80%SOC)	10 (10~80%SOC)	20 (10~80%SOC)	12 (20~80%SOC)
Cycle Life (25°C)	>2500	>1400	>1400	>1400	>1600





Product Portfolio

VDA/MEB



VDA/MEB products, with advantages such as high energy density, high power and low cost, are applicable to different scenarios, including PHEV, A0, etc.

Cells	106 Ah	117Ah
		
	52*148*112 mm	52*148*102 mm
Cathode Material	LFP	NCM
Type	VDA	VDA
Voltage Range (V)	2.0~3.65	2.8~4.4
Standard Voltage(V)	3.21	3.75
Energy Density (Wh/kg)	>175	>250
Energy Density (Wh/L)	>394	>596
Fast Charging (Min)	20 (10~80%SOC)	20 (10~80%SOC)
Cycle Life (25°C)	>2500	>1400



Cells

137 Ah



52*148*112 mm

51 Ah



26*148*91 mm

126 Ah



52*148*100 mm

135Ah



52*148*100 mm

Cathode Material

NCM

NCM6&8

NCM/AR

NCM/AR+Si

Type

VDA

VDA

VDA

VDA

Voltage Range (V)

2.8~4.4

2.8~4.2

2.8~4.2

2.5-4.2V

Standard Voltage(V)

3.75

3.62

3.67

3.6

Energy Density (Wh/kg)

>250

>215

>255

>260

Energy Density (Wh/L)

>596

>520

>600

>638

Fast Charging (Min)

20
(10~80%SOC)30
(20~80%SOC)35
(0~80%SOC)35
(2~80%SOC)

Cycle Life (25°C)

>1400

>3600

>2000

>1400



Cells

134 Ah



44*220*112 mm

115Ah



32*220*106 mm

155 Ah



43*220*105 mm

222 Ah



54*173*204 mm

230 Ah



54*173*204 mm

50 Ah



39*148*95 mm

135.5 Ah



52*148*115 mm

Cathode Material	LFP	NMx	NMx	LFP	LFP	LFP	LFP
Type	MEB	MEB	MEB	VDA	VDA	VDA	VDA
Voltage Range (V)	2.0~3.65	2.8~4.3	2.8~4.3	2.5~3.65	2.5~3.65	2.5~3.65	2.5~3.65
Standard Voltage(V)	3.22	3.74	3.74	3.2	3.15	3.2	3.2
Energy Density (Wh/kg)	>178	>240	>240	>169	>175	>142	>173
Energy Density (Wh/L)	>395	>570	>570	>367	>380	>285	>357
Fast Charging (Min)	45 (10~80%SOC)	42 (10~80%SOC)	42 (10~80%SOC)	120 (5~80%SOC)	48 (0~80%SOC)	45 (5~80%SOC)	45 (5~80%SOC)
Cycle Life (25°C)	>3000	>2500	>2500	>8000	>4000	>8000	>8000



Product Portfolio

Pouch Cells



Ultra-long Life	SAFE AND RELIABLE	High-energy density	Extra wide temperature resistance	Stacking TECHNOLOGY
6000+	FULL LIFE CYCLE SAFETY	175 WH/KG	LOW TEMPERATURE WIDE FIELD	HIGH-SPEED STACKING

Cells	23.2 Ah	20 Ah
		
	8*304*92 mm	13*153*150 mm

Cathode Material	LFP	LFP
Type	Pouch	Pouch
Voltage Range (V)	2.3~3.65	2.5~3.65
Standard Voltage(V)	3.17	3.2
Energy Density (Wh/kg)	>154	>129
Energy Density (Wh/L)	>307	>201
Charge Rate (C)	1C	2C
Cycle Life (25°C)	>4000	>4000
Application Scenario	PHEV, Light power battery, Sharing /Leasing	Start-stop power supply, gasoline-fueled automobiles lead to lithium conversion



Cells

5.2 Ah



4.5*205*84 mm

40 Ah



8.45*322*129 mm

50 Ah



13.5*325*108 mm

65 Ah



13.8*355*123 mm

Cathode Material	NCM	LFP	LFP	LFP
Type	Pouch	Pouch	Pouch	Pouch
Voltage Range (V)	2.7~4.2	2.0~3.65	2.3~3.65	2.3~3.65
Standard Voltage(V)	3.65	3.17	3.2	3.2
Energy Density (Wh/kg)	>112	>183	>171	>173
Energy Density (Wh/L)	>245	>360	>337	>345
Charge Rate (C)	3	0.5	0.5	0.75
Cycle Life (25°C)	>35000	>2000	>6000	>6000
Application Scenario	HEV, Emergency starting power	Household energy storage, base station energy storage, portable energy storage, electric motorcycles, light power vehicles, low-speed vehicles, forklifts	Household energy storage, base station energy storage, portable energy storage, electric motorcycles, low-speed vehicles, forklifts	Household energy storage, base station energy storage · low-speed vehicles, forklifts








Product Portfolio

Cylindrical Cells



21700 cylindrical cells are mainly used in low power battery and smart home market due to their low cost and high energy density.

46xxx cylindrical cells are mainly applied in the premium vehicle market. SVOLT has established structure patent protection system with leading technology to develop products with cycle life ≥ 1400 cs, ≤ 20 min fast charging capability module level without heat diffusion.

Cells	4.2 Ah	5.0 Ah	30 Ah	32.5 Ah	35.5 Ah
					
	21*71 mm	21*71 mm	46*95 mm	46*95 mm	46*95 mm

Cathode Material	NCM	NCM	NCM	NCM	NCM
Type	21700	21700	46950	46950	46950
Voltage Range (V)	2.75~4.20	2.50~4.20	2.50~4.20	2.50~4.20	2.50~4.20
Standard Voltage(V)	3.6 (1C)	3.6 (1C)	3.66 (0.33C) 3.64 (1C)	3.66 (0.33C) 3.64 (1C)	3.59 (0.33C) 3.56 (1C)
Energy Density (Wh/kg)	>225	>264	>260	>280	>300
Energy Density (Wh/L)	>580	>690	>695.4	>752	>805
Fast Charging (Min)	120 (10~100%SOC)	120 (10~100%SOC)	16	20	20
Cycle Life (25°C)	>800	>800	>1400	>1300	>1100



Battery System

Dragon Armor Battery

5 Major Innovations



2nd Generation Short Blade Cell



Thermal-electrical Separation



Removal of Central Exhaust Channel



Large Top and Bottom Liquid-cooling Plates



Compatible with multiple material systems

01 Ultimate Safety

Could greatly improve the safety of battery system and no thermal propagation between cells.

Innovative cell structure

Bottom explosion-proof valve design, shorten the internal gas channel, directional pressure relief when abnormal abuse



PACK Thermal-Electrical Separation

Thermal runaway relief area and electrical connection area are independent of each other, reducing the probability of failure of internal high-voltage arcing and firing.



02 Ultimate Range

Extreme space utilisation for the ultimate EV range

Removal of Central Exhaust Channel



High-Strength Steel + Elastic Bracket on PACK Bottom Housing



76%

Assembly Efficiency

800 km*

LFP

900 km*

H-LMFP

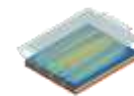
1000 km*

NCM



03 Ultimate Performance

Large top & bottom cooling plates
The upper cover of the battery pack is integrated with the cooling plate, add the bottom cooling plate



+70%
Heat Exchange

4C
Fast Charge Capability

04 Ultimate Cost

The electrical connection area of the battery pack is reduced compared to the LCTP1.0 matrix battery pack

-20%
Structural Parts

-15kg
PACK Weight Reduction

05 Ultimate Compatibility

A00-C Class

Support for various chemistries;
Compatible with L300-L600 cells

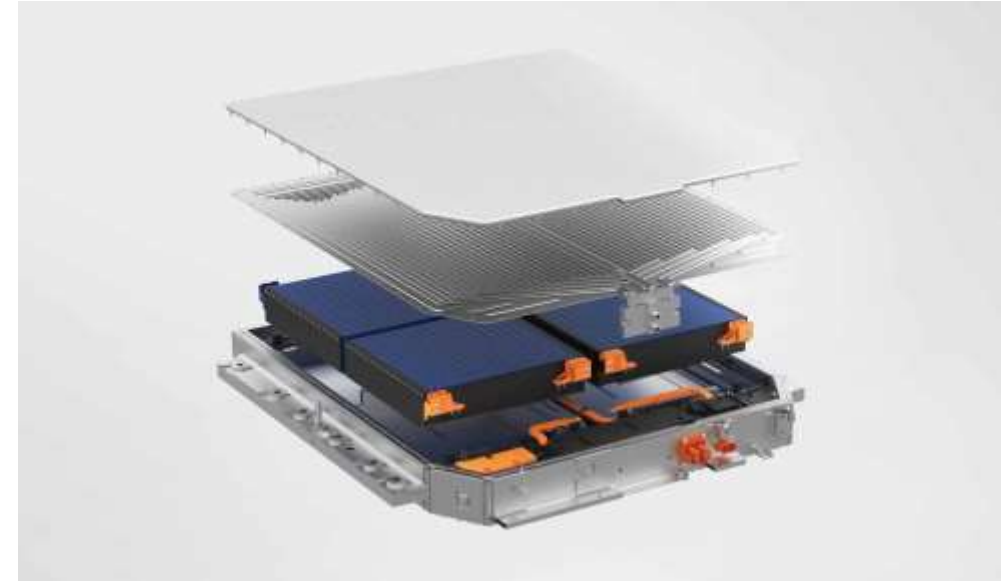
3-in-1 Design

Expandable to CTC/CTB;
Pack upper housing, cooling plate and car floor plate integrated into one



Battery System

PHEV-Short Blade Battery System



The unique "sandwich" structure of the short blade system and the expandable double-sided cooling design enable high-strength and lightweight design and super fast charging capacity.

Technical Advantages		
Structure	Module Design	Short blade system without module and "sandwich" structure can achieve lightweight and high-strength design.
Electric	Electrical Connection	Overhead direct cooling technology can achieve lightweight design and reduce cooling energy consumption.
Voltage Acquisition	Voltage Acquisition Design	FDC integrated acquisition technology reduces the use of wiring harnesses, makes the Pack simple and beautiful and improves volume utilization rate.

Type	Parameter
Cell Cathode Material	LFP
Cell Standard Voltage(V)	62.5Ah (1/3C)
Pack Specification	1P100S
Pack Rated Power	19.09kWh (1/3C)

Type	Parameter
PACK Size (mm)	1113*970*100
Pack Weight (kg)	182
Energy Density (Wh/kg)	104.9
Energy Density (Wh/L)	176.8



Battery System

800V High Voltage System



High Voltage Platform: Super fast charging technology

The Pack with 800V high-voltage platform, combined with multi-sided cooling technology of cells, achieves the maximum Pack overcharge power of 480KW, with a range of 700km and a range of 200km after charging 5 minutes.

Type	Parameter
Cell Material System	NCM
Rated capacity of cell	149Ah (1/3C)
series/parallel form of packs	1P184S
Pack Rated Capacity	103.36kWh

Type	Parameter
PACK Size(mm)	2300.8*1614*233.6
Pack Weight	644
Energy Density (Wh/kg)	160
Energy Density (Wh/L)	232.178



Battery System

SVOLT Short Blade Cell No.1

Short blade liquid cooling ESS for industrial and commercial application

The short blade cell using SVOLT stacking technology has ultra-high energy density and adopts multi-sided liquid cooling technology to achieve safety and durability. The battery life can reach 20 years.

Technical Advantages

Highly integrated Small footprint, easy to install, convenient operation and maintenance

High efficiency Intelligent temperature control strategy effectively reduces air conditioning power consumption. By optimizing the running power sequencing, the battery efficiency and PCS efficiency are maximized, with the highest system efficiency reaching 91%.

Comprehensive functions Autonomous EMS can achieve various functions such as peak load shifting, dynamic capacity expansion, reactive power compensation, reverse power control, demand response, virtual power plant, frequency regulation, etc.

Fine monitoring Full cell temperature and voltage monitoring, big data active analysis and early warning.

Long life, high reliability and high safety.



Type	Parameter
Rated capacity	318kWh
series/parallel connection	2P224S
Output voltage	716.8V DC
Maximum system efficiency	≥94%
Rated charging and discharging rate	≤0.5P
Protection level	IP55

Type	Parameter
Cooling method	Liquid cooling
Size (L*W*H)	1500*1300*2300mm
Weight	≤3.4t
Altitude	≤3000m
System noise	≤75dB@1m



Battery System

SVOLT Short Blade Cell No.2

Power side short blade liquid-cooling ESS

Technical Advantages

Cell level	The SVOLT short blade product adopts the 325/350 short blade cell independently developed by SVOLT and adopts the Gen3 fast stacking process, which has high safety and consistency.
PACK level	Innovative material and design improvements achieve effective suppression of thermal diffusion and swelling force constraint, with better group efficiency and more flexible fire-proof switching modes.
System integration level	Further improvements have been made in structure, electrical parts, communication, fire protection, thermal management and compatibility to achieve lower cost and more efficient performance enhancement.

3.34MWh-0.5P



7250*2896*2638 mm

3.46MWh-0.5P



6058*2896*2438 mm

5.16MWh-0.5P



6058*3100*2438 mm

6.9MWh-0.5P



6058*3100*2524 mm

Cell Capacity	222 Ah	325 Ah	350 Ah	350 Ah
Cycle life	≥8000 cycles @70%SOH	≥9000/12000 cycles @70%SOH	≥8000 cycles @70%SOH	≥8000 cycles @70%SOH
Series-Parallel Connection	1P392S*12	1P416S*8	1P384S*12	1P385S*12
Nominal Energy	3341kWh	3461kWh/3300kWh	5160kWh	6899kWh
Output Voltage	1254.4V DC	1331.2V DC	1228.8V DC	1232V DC
Nominal charge /discharge ratio	≤0.5P	≤0.5P	≤0.5P	≤0.5P
Protection Grade	IP54	IP55	IP55	IP55
Weight	35t	34t	43t	63t
Anti-corrosion, dirt level	C3 Level II	C4 Level II	C4/C5 optional Grade II	C4/C5 optional Grade II
Allowable maximum altitude	≤3000m (non-degradable)	≤3000m (non-degradable)	≤3000m (non-degradable)	≤3000m (non-degradable)
System noise	≤75dB @1m	≤75dB @1m	≤75dB @1m	≤85dB @1m
Temperature range	-30°C~45°C	-30°C~45°C	-30°C~55°C	-30°C~55°C
Humidity range	5~95% (non-degradable)	5~95% (non-degradable)	0~100% (non-degradable)	0~100% (non-degradable)



SVOLT Cloud

Monitoring System

Backed by **Machine learning and AI**, SVOLT Cloud monitors and analyzes the battery based on full lifecycle data.

Number of new energy vehicles monitored

860 K+

Accuracy of early warning

>96 %

Cumulative analysis Data

240 Billion+

7 OEMs, 130+ vehicle models (EV, HEV, PHEV, REEV)
Region: China (618 cities), ASEAN, Brazil, Russia, Europe



01 BIG DATA INTELLIGENT MONITORING

04 RESIDUAL VALUE ASSESSMENT

02 CLOUD BASED ALL-ROUND INTELLIGENT EARLY WARNING

05 DIFFERENT STRATEGIES FOR DIFFERENT VEHICLES

03 INTELLIGENT AFTER-SALES SERVICE

