



Optimal Energy Solutions –

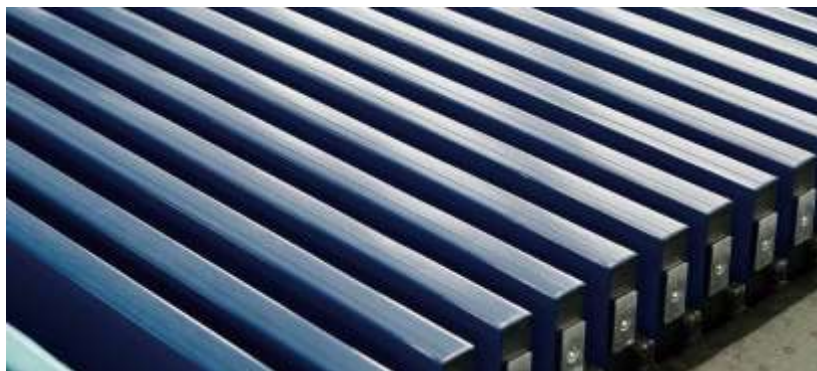
Building a Sustainable Future Together



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Battery Cells - Catalogue

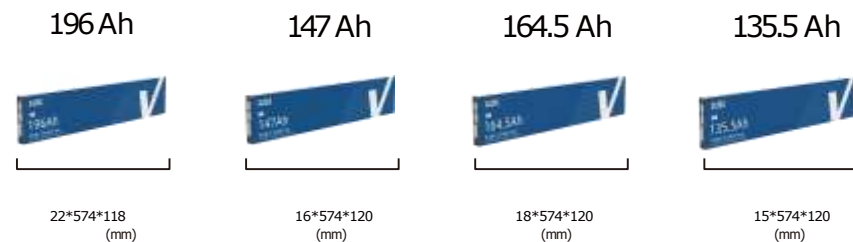
L600 Short Blade Cells



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



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



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




L400PHEVShort BladeCells



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



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	Electricity(NCM)	Range
B-CLASS	100-120kWh	500-800KM
<small>AND ABOVE HIGH-END</small>		



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



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
Type	MEB	MEB	MEB
Voltage Range (V)	2.0~3.65	2.8~4.3	2.8~4.3
Standard Voltage(V)	3.22	3.74	3.74
Energy Density (Wh/kg)	>178	>240	>240
Energy Density (Wh/L)	>395	>570	>570
Fast Charging (Min)	45 (10~80%SOC)	42 (10~80%SOC)	42 (10~80%SOC)
Cycle Life (25°C)	>3000	>2500	>2500



LFP	LFP	LFP	LFP
VDA	VDA	VDA	VDA
2.5~3.65	2.5~3.65	2.5~3.65	2.5~3.65
3.2	3.15	3.2	3.2
>169	>175	>142	>173
>367	>380	>285	>357
120 (5~80%SOC)	48 (0~80%SOC)	45 (5~80%SOC)	45 (5~80%SOC)
>8000	>4000	>8000	>8000



Pouch Cells



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








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

