AWP BATTERY SERIES
INDUSTRIAL BATTERIES

Lithium Valley specializes in the R&D of lithium-ion and sodium batteries for industrial vehicles, positioning its products as safe, reliable and efficient partners for industrial vehicles.

Our scissor lift batteries are applied to industrial vehicles such as aerial work platforms. Adopting a modular design, the single module is sized to match lead-acid batteries and complies with BCI standards. Multiple specifications including 24V/36V/48V are available. For the same voltage rating, 6–10 parallel-connected packs for capacity expansion are supported, which can flexibly improve equipment endurance and high-power output.

The products use Grade A cells and automotive-grade manufacturing standards, with built-in dual-protection BMS, Bluetooth module and thermal management system. They support 2-hour fast charging, intelligent fault diagnosis and APP management, and adapt to high and low temperature operations. Certified by UL and CE, they are widely used in warehousing & logistics, construction sites, municipal emergency services and other fields.

Our scissor lift batteries are widely applied in indoor warehousing & logistics, outdoor construction site operations, municipal maintenance and emergency repair. Certified to UL and CE standards and compliant with BCI battery dimensions, they are your first choice for aerial work platform batteries targeting the European and American markets.

APPLICATIONS








KEY FEATURES

- Grade A LFP Cell
- 2-hour Rate Fast Charging Supported
- Advanced BMS
- Built-in Heater
- Bluetooth APP
- Global Certifications
- Modular Design Supporting Parallel Capacity Expansion
- Compatible with Lead-acid Battery Dimensions (BCI Standard)
- Cycle Life of ≥ 4,000 Cycles
- APP Monitoring Supported
- Automotive-grade Quality

PRODUCT MODEL







VP24-104A-A | VP36-52A-A | VP48-52A-A

SYSTEM TECHNICAL PARAMETERS

Model	VP24-104A-A	VP36-52F-A
Voltage	25.6V	38.4V
Nominal Capacity (25°C)	104Ah	52 Ah
Electrical		
Nominal Energy (25°C, 0.2C)	2662Wh	1996Wh
Maximum Continuous Current	100A	
Peak Discharge Current(<30s)	200A	
Discharge Cut-off Voltage	20V	30V
Maximum Continuous Current	50A	
Recommended Charging Current	25A	
Charge Cut-off Voltage	29.2V	43.8V
Shipment Voltage	25.6V to 27.4V	34.8V to 40.8V
Internal Impendence(AC)	< 20mΩ	
Mechanical		
Dimensions (W x H x D)	275 x186x 287 mm	
Weight	Approx. 20.3 ± 5 kg	Approx. 15 ± 2 kg
Total Cells Quantity in Battery Module	8S2P	11S1P
Materials of Battery Case	ABS+PC	
Cell	LFP 52Ah	
Color	116C(Orange)	2173C(Blue)
Ingress Protection Rating	IP65	
Environmental		
Calendar Life (25°C)	> 10 years	
Cycle Life (0.5C/0.5C, DOD 100%, 25°C)*	SOH 80%, ≥4000 cycles	
Optimum Working Temperature**	10°C to 35°C	
Charge Temperature Range	0°C to 55°C	
Discharge Temperature Range	-20°C to 60°C	
Storage Temperature	0°C to 45°C (Recommended range: 10°C to 35°C)	
BMS Parameters		
Cell OVP/Recover	3.65 V/3.55 V	
Total OVP/Recover	29.2 V/28.4 V	43.8 V/42.6 V
Cell UVP/Recover	2.5 V/3.0 V	
Total UVP/Recover	30 V/36 V	
Normal Charge Current	≤ 50 A	
Normal Discharge Current	≤ 100A	
Over Current Protection	> 200 A	
Short Circuit Protection	≥ 2000 A	
Low Temperature Protection	Charge <0°C, Discharge <-20°C	
High Temperature Protection	Charge >55°C, Discharge >60°C	
PCB Over Temp Protection	≥ 80°C, Recover < 75°C	
Balance Mode	Passive balance (BMS built-in)	
Balance Current	< 50 mA	

* 0.5C/0.5C means charge 0.5C and discharge 0.5C

** Operation temperature means the ambient temperature. Protection may be triggered if the conditions defined in the specification are exceeded. All specifications are subject to change without prior notice. Performance may vary depending on, but not limited to cell usage and application. If a cell is used outside specifications, performance will diminish.

SYSTEM TECHNICAL PARAMETERS

Model	VP48-52F-A
Voltage	51.2V
Nominal Capacity (25°C)	52 Ah
Electrical	
Nominal Energy (25°C, 0.2C)	2662Wh
Maximum Continuous Current	100A
Peak Discharge Current(<30s)	200A
Discharge Cut-off Voltage	40V
Maximum Continuous Current	50A
Recommended Charging Current	25A
Charge Cut-off Voltage	58.4V
Shipment Voltage	51.2 V to 54.4 V
Internal Impendence(AC)	< 20mΩ
Mechanical	
Dimensions (W x H x D)	275 x186x 587 mm
Weight	Approx. 20.3 ± 2 kg
Total Cells Quantity in Battery Module	16S1P
Materials of Battery Case	ABC+PC
Cell	LFP 52Ah
Color	2076C(Purple)
Ingress Protection Rating	IP65
Environmental	
Calendar Life (25°C)	> 10 years
Cycle Life (0.5C/0.5C, DOD 100%, 25°C)*	SOH 80%, ≥4000 cycles
Optimum Working Temperature**	10°C to 35°C
Charge Temperature Range	0°C to 55°C
Discharge Temperature Range	-20°C to 60°C
Storage Temperature	0°C to 45°C (Recommended range: 10°C to 35°C)
BMS Parameters	
Cell OVP/Recover	3.65 V/3.55 V
Total OVP/Recover	58.4 V/56.8 V
Cell UVP/Recover	2.5 V/3.0 V
Total UVP/Recover	30 V/36 V
Normal Charge Current	≤ 50 A
Normal Discharge Current	≤ 100A
Over Current Protection	> 200 A
Short Circuit Protection	≥ 2000 A
Low Temperature Protection	Charge <0°C, Discharge <-20°C
High Temperature Protection	Charge >55°C, Discharge >60°C
PCB Over Temp Protection	≥ 80°C, Recover < 75°C
Balance Mode	Passive balance (BMS built-in)
Balance Current	< 50 mA

* 0.5C/0.5C means charge 0.5C and discharge 0.5C

** Operation temperature means the ambient temperature. Protection may be triggered if the conditions defined in the specification are exceeded. All specifications are subject to change without prior notice. Performance may vary depending on, but not limited to cell usage and application. If a cell is used outside specifications, performance will diminish.