

Mobile Elevated Work Platforms Li-ion Battery Solutions



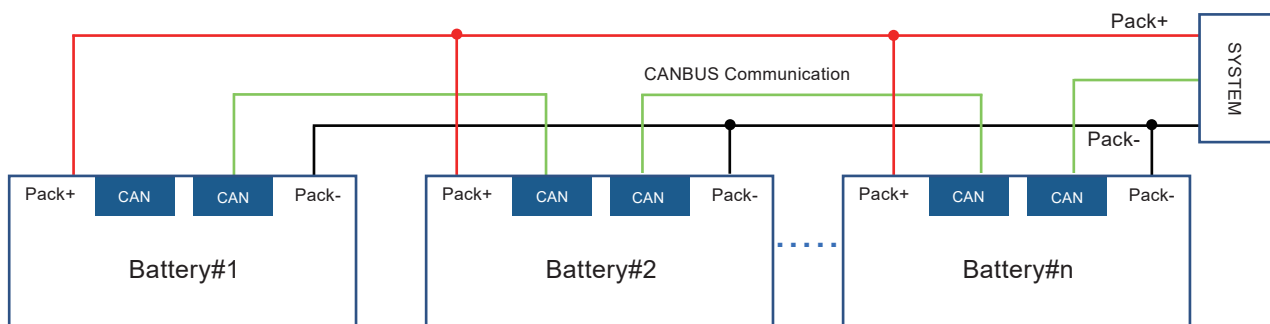
Reliable Durable Batteries

ACE is an industry leading manufacturer focusing on R&D, production and sales of lithium ion cell and custom battery packs, serving diversified industries covering e-mobility to various industrial applications. With 20 years' experience in the industry, we have accumulated profound engineering capabilities and exported to more than 30 countries.

ACE lithium batteries can be used in a variety of MEWP applications, offers a range of advanced safety, environmental, Intelligent, run time and lifetime from its superior cell and battery design to its intelligent. ACE lithium batteries deliver outstanding return on investment overtime.

Advanced Features

- + **Automotive Standard Safety Systems**
Anti-thermal structural design and microprocessor-controlled safety system protection, like Over Voltage/Under Voltage/Over Current/Over Temperature/Short Circuit.
- + **CAN Communication with J1939**
Support J1939 Communication to read battery State of Charge (SoC), Voltage, Current, temperature and other information.
- + **Superior BMS performance**
High accuracy voltage/current measure, high accuracy Fuel gauge calculation with temperature compensation.
RTC+EEPROM to track battery operation history, run time and SOC.
- + **Flexible Parallel Connection**
Support parallel connection and allow batteries different capacity/SOC to be connected in parallel.
Intelligent balance battery with different SOC when parallel connection.
- + **Heater Function**
Support heater function to warm up the battery in low temperature for charging and discharging.
- + **High precision cell detection**
The battery can detect low current leakage from the MEWP system, and turn off automatically to save the power.
- + **Long Cycle Life**
More than 3000 cycles.
- + **Certification**
IEC62620, IEC62619, UL2580, UL2271, UN38.3, UL etc.



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■ Specifications

| Model | AWP24-80 | AWP24-100 | AWP24-150 | AWP24-200 | AWP48-100 |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|
| Rated Voltage [V] | 25.6 | 25.6 | 25.6 | 25.6 | 51.2 |
| Rated Capacity [Ah] | 80 | 100 | 150 | 200 | 150 |
| Total Energy [Wh] | 2048 | 2560 | 3840 | 5120 | 7680 |
| Charge Voltage [V] | 28.4 | 28.4 | 28.4 | 28.4 | 56 |
| Max. Charge Current [A] | 35 | 50 | 75 | 100 | 75 |
| EOD Voltage [V] | 20 | 20 | 20 | 20 | 40 |
| Continuous Discharge current [A] | 138 | 100 | 150 | 180 | 200 |
| Peak Discharge current [A] | 150A/60s | 200A/3min | 250A/3min | 270A/2min | 500A/2min |
| Dimensions [L*W*H, mm] | 306*182*245 | 263*333*196 | 334*377*196 | 646*367*200 | 718*259*385 |
| Weight [kg] | 18 | 30 | 40 | 57.4 | 78 |
| IP Grade | IP67 | | | | |
| Operating Temperature [°C] | -20 to +50 | | | | |
| Relative Humidity | 0 ~ 95%RH | | | | |
| Communication Port | CAN | | | | |

■ Comparison between lithium battery and AGM battery

| AWP Type | ACE Lithium Battery | | | AGM Battery | | |
|---------------|---------------------|----------|------------|-------------|----------|------------|
| | Battery | Capacity | Weight(kg) | Battery | Capacity | Weight(kg) |
| Scissor Lifts | 1 x AWP24-80 | 24V80AH | 31.8 | 2 x 31-AGM | 24V100AH | 60 |
| | 2 x AWP24-80 | 24V160AH | 63.6 | 4 x T105 | 24V225AH | 112 |
| | 2 x AWP24-100 | 24V200AH | 60 | 4 x T145 | 24V260AH | 132 |
| | 1 x AWP24-200 | 24V200AH | 57.4 | 2 x T1275 | 24V300AH | 78 |
| Boom Lifts | 2 x AWP48-150 | 48V300AH | 156 | 4 x L16P | 48V420Ah | 208 |