



ACETECH

BESS ENERLIFT

FORKLIFT BATTERY, POWERED BY INTELLIGENT LITHIUM-ION TECHNOLOGY



FLEXIBLE DESIGN

The modular design allows for custom sizing and capacity of power systems tailored to each vehicle, with the flexibility to adapt to changing demands.



HIGH RELIABILITY

An integrated Battery Management System (BMS) within the electronic control module ensures protection, control, and communication between the charger and the truck.



HIGH PRODUCTIVITY

Our high-density power solutions offer longer run times, eliminate change-outs, and charge faster, ultimately reducing downtime.



LOW MAINTENANCE

These virtually maintenance-free solutions eliminate the need for watering, equalizing, and unpredictable labor and repair costs.



HIGH STANDARDS

Engineered to the highest standards, we are a global leader in new energy solutions for industrial applications.



SAFETY PERFORMANCE

The anti-thermal structural design and microprocessor-controlled safety system protection keep battery cells healthy and safe. Safety features include extreme temperature protection, overcharge/overdischarge protection, and high current protection.



BENEFITS



\$0

Free Maintenance



100%

Safety



15%

Energy Savings



70%

Lower TCO



24/7

Runtime



0 MIN

No wait, plug & play

BATTERY TECHNICAL DATA

	24V				36V	
Model	FL-24230	FL-24280	FL-24460	FL-24560	FL-36560	FL-36920
Dimension	19.1x 7.1x 14.6 inch (485x180x370 mm)	25.0x 7.1x 14.6 inch (634x180x370 mm)	19.1x 14.4x 14.6 inch (485x365x370 mm)	25.0x 14.4x 14.6 inch (634x365x370 mm)	25.0x 14.4x 17.4 inch (634x365x440 mm)	38.4x 14.4x 17.4 inch (975x365x440 mm)
Weight	136 lbs (62 kg)	163 lbs (74 kg)	207 lbs (94 kg)	260 lbs (118 kg)	379 lbs (172 kg)	511 lbs (232 kg)
Available Capacity	230 Ah (5.88 kWh)	280 Ah (7.16 kWh)	460 Ah (11.77 kWh)	560 Ah (14.33 kWh)	560 Ah (21.50 kWh)	920 Ah (35.32 kWh)
System / Nominal Voltage	24V / 25.6V				36V / 38.4V	
Continuous Charge Current	150 A	250 A	250 A	250 A	250 A	250 A
Continuous Discharge Current (A)	150 A	250 A	250 A	250 A	250 A	250 A

	48V					
Model	FL-48230	FL-48280	FL-48460	FL-48460R	FL-48560	FL-48920
Dimension	19.1x 14.4x 14.6 inch (485x365x370 mm)	25.0x 14.4x 14.6 inch (634x365x370 mm)	28.8x 19.1x 14.6 inch (730x485x370 mm)	38.4x 7.1x 23.3 inch (975x180x590 mm)	28.8x 25.0x 14.6 inch (730x634x370 mm)	38.4x 14.4x 23.3 inch (975x365x590 mm)
Weight	251 lbs (114 kg)	304 lbs (138 kg)	392 lbs (178 kg)	392 lbs (178 kg)	498 lbs (226 kg)	674 lbs (306 kg)
Available Capacity	230 Ah (11.77 kWh)	280 Ah (14.33 kWh)	460 Ah (23.55 kWh)	460 Ah (23.55 kWh)	560 Ah (28.67 kWh)	920 Ah (47.10 kWh)
System / Nominal Voltage	48V / 51.2V					
Continuous Charge Current	150 A	250 A	250 A	250 A	250 A	250 A
Continuous Discharge Current (A)	150 A	250 A	250 A	250 A	250 A	250 A

	72V			80V			
Model	FL-72280	FL-72460	FL-72560	FL-80230	FL-80280	FL-80460	FL-80560
Dimension	25.0x 14.4x 17.4 inch (634x365x440 mm)	38.4x 21.7x 14.6 inch (975x550x370 mm)	28.8x 25.0x 17.4 inch (730x634x440 mm)	30.2x 14.4x 14.6 inch (765x365x370 mm)	39.4x 14.4x 14.6 inch (999x365x370 mm)	30.2x 14.4x 23.3 inch (765x365x590 mm)	39.4x 14.4x 23.3 inch (999x365x590 mm)
Weight	343 lbs (157 kg)	566 lbs (257 kg)	725 lbs (329 kg)	383 lbs (174 kg)	469 lbs (213 kg)	612 lbs (278 kg)	784 lbs (356 kg)
Available Capacity	280 Ah (21.50 kWh)	460 Ah (35.32 kWh)	560 Ah (43.00 kWh)	230 Ah (19.13 kWh)	280 Ah (23.29 kWh)	460 Ah (38.27 kWh)	560 Ah (46.59 kWh)
System / Nominal Voltage	72V / 76.8V			80V / 83.2V			
Continuous Charge Current	250 A	250 A	250 A	150 A	250 A	250 A	250 A
Continuous Discharge Current (A)	250 A	250 A	250 A	150 A	250 A	250 A	250 A

Charge Temperature	32°F to 131°F (0°C to 55°C)*
Discharge Temperature	-4°F to 140°F (-20°C to 60°C)
Battery Technology	LFP
Protection Rating	IP67
Cycle Life	5000 cycles**
Communication	CAN-Bus
Charger	Compatible with ACE charger and approved chargers



*with heating option -4°F to 131°F (-20°C to 55°C)

**varies with operating conditions

***customizable dimension

CHARGER TECHNICAL DATA



- Supports multiple charging modes, including Li-Ion and VRLA batteries
- Compatible with a wide range of charging voltage settings (24-80V), adapting to batteries with different specifications using three-stage or single-stage charging to extend battery life
- Variable charging current, up to 100A/200A Max, to accommodate batteries with different capacities
- Features EPO support, allowing the unit to completely disconnect from the utility and battery to ensure operational safety
- High-frequency design, compact size, lightweight, and convenient for transportation and installation

Model	Wire	Acceptable Input Voltage (V)	Nominal Output Voltage (V)	Nominal Output Current (A)
ACEIVC24-100	Single-phase	AC 110/220	24	100
ACEIVC24-200	3-phase	AC 220/380/480/600	24	200
ACEIVC36-100	3-phase	AC 220/380/480/600	36	100
ACEIVC36-200	3-phase	AC 220/380/480/600	36	200
ACEIVC48-100	3-phase	AC 220/380/480/600	48	100
ACEIVC48-200	3-phase	AC 220/380/480/600	48	200
ACEIVC72-100	3-phase	AC 220/380/480/600	72	100
ACEIVC72-200	3-phase	AC 220/380/480/600	72	200
ACEIVC80-100	3-phase	AC 220/380/480/600	80	100
ACEIVC80-200	3-phase	AC 220/380/480/600	80	200

AC INPUT	
Wire	Single-phase, 3-phase
Acceptable Input Voltage (V)	AC 110/220/380/480/600
Frequency Range	45Hz ~ 65Hz
Input Power Factor	≥0.99 nominal input and full load output
THDi	< 5% nominal input and full load output
DC OUTPUT	
DC Output Voltage (V)	DC 24/36/48/72/80
Nominal Output Power (kW)	2.4~16
Connection	REMA/Anderson/GB with 3m battery cable(optional)
Peak Efficiency	93%
Voltage Regulation Precision	≤±1% @ no load
Current Sharing Difference	5% @ > 10% load
OTHER	
IP Protection	IP32
Humidity	5~95% relative humidity (non-condensing)
Operating Temperature	-10°C ~ 50°C
Communication	RS232/RS485/CAN

APPLICATIONS (OPTIONAL)



Cold Storage

Li-ion Battery Solution for Cold Storage Warehouses

- Electric components with special waterproof treatment technology
- Homeothermic ambient temperature inside battery box
- Withstands working temperatures down to -40°C



Multiple Shifts

Li-ion Battery Solution for Multiple Shift Operations

- Accommodates the needs of three-shift-a-day operations
- ACE Lightning Charge System supports fast charging up to 2C

TECHNOLOGY

Super Black Box

ACE Super Black Box

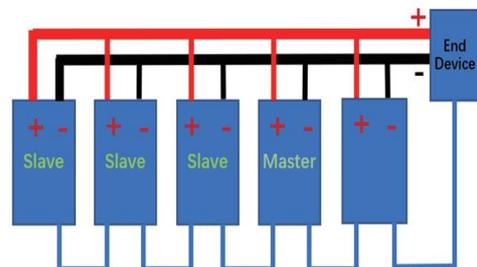
- Intelligent BMS management, local and cloud recording, and customized services
- Tracks and records the battery pack operation status and abnormal events



Smart Parallel

ACE Smart Parallel

- Connection Pack modules communicate with each other, autonomously selecting a master module to centralize data for the system end device
 - Simplifies pack installation and eliminates complex communication wiring
- Remove master BMS module



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