LiFe Power Technology

ACT Battery Series

LiFe Power Technology provides advanced lithium iron phosphate energy storage solutions.
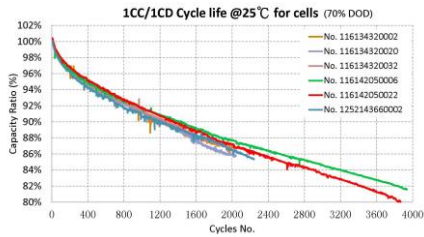
ACT-24V50FS-M1

The **ACT** Battery Series is built for electrical automobiles with lithium iron phosphate cell (LiFePO4), it offers light weight with extremely high cycle, long calendar life and this battery is designed and capable of extreme high energy output. This series also designed to withstand excessive temperature ranging -20°C to 75°C.
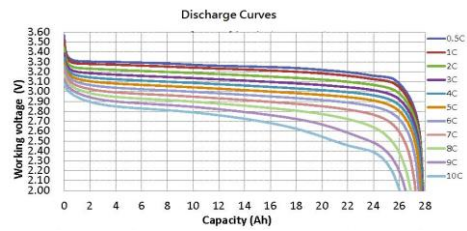

Key Features:

- High cycles, over 3000 cycles at 70% DOD.
- Built-in automatic protection for over-charge & over-discharge.
- Smart battery monitoring with internal cell balancing.
- Communication of monitored data via Battery Management System (BMS)
- Fast recharge, can be fully recharged in 2 hour
- Extreme save and durable LiFePO4 battery cell technology

- Longer shelf life
- Continue high energy output.
- No acid leaking
- Environmentally friendly, no heavy metals and minimal disposal issues
- High energy efficiency with no memory effect.
- Lower lifetime costs due to low maintenance and high cycle life
- Intrinsic phosphate safety that protects against abusive situations.
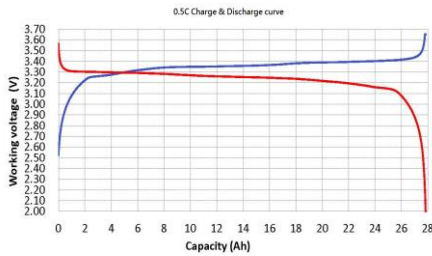- Light weight, easy for handling.
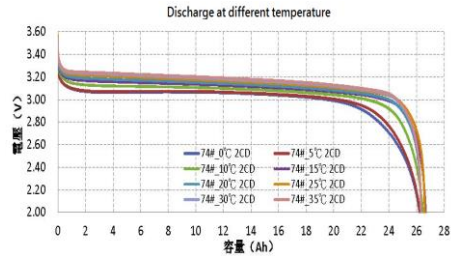
Cycle Life Performance, 100% DOD

1CC/1CD Cycle life @25℃ for cells (70% DOD)

- No. 116134320002
- No. 116134320020
- No. 116134320032
- No. 116142050006
- No. 116142050022
- No. 1252143660002

C rate

Discharge Curves

- 0.5C
- 1C
- 2C
- 3C
- 4C
- 5C
- 6C
- 7C
- 8C
- 9C
- 10C

Charge Performance

0.5C Charge & Discharge curve

Discharge Performance, Vs Temperatures

Discharge at different temperature

- 74#_0℃ 2CD
- 74#_5℃ 2CD
- 74#_10℃ 2CD
- 74#_15℃ 2CD
- 74#_20℃ 2CD
- 74#_25℃ 2CD
- 74#_30℃ 2CD
- 74#_35℃ 2CD

SPECIFICATION	ACT-24V50FS-M1
Nominal Voltage	24V (30~22V)
Nominal Capacity(C/5@25°C)	50Ah
Internal impedance (1kHz AC)@25°C	≦ 10 mΩ
Weight	< 15.5kg
Dimension (mm) BOX	Approx. L 340*W 144*H 244 mm
Box material	Metal(AL)
Capacity gauge	5 LED indicators
Specific Energy(Cell)	121Wh/kg
Max. cont. discharge@25°C	30A
Max. pulse discharge@25°C (1s)	45A
Discharge cut-off voltage@25°C	22.4V(2.8v/cell)
Charge Current	<30A
Charge voltage	29.2V ±0.2V
Cycle life at 0.2C discharge, 70%DOD <40°C	3000 cycles (SOH70%)
Cycle life at 0.75C discharge, 20%DOD@25°C	12000 cycles (SOH70%)
BMS protection	OVP,LVP,ODCP,OCCP,ODTP,OCTP, cell balance
Communication	RS232
Record	SD card
Discharge temperature range(Cell)	-20°C to 75°C
Charge temperature range(Cell)	-0°C to 50°C
Storage temperature range	-20°C to 55°C
Technology	LiFePO4

All information is subject to change without further notice

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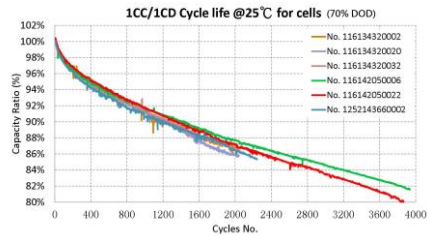
ACT-24V50FS-M2

The **ACT** Battery Series is built for electrical automobiles with lithium iron phosphate cell (LiFePO4), it offers light weight with extremely high cycle, long calendar life and this battery is designed and capable of extreme high energy output. This series also designed to withstand excessive temperature ranging -20°C to 75°C.
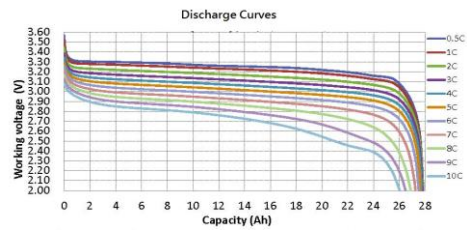
Key Features:

- High cycles, over 3000 cycles at 70% DOD.
- Built-in automatic protection for over-charge & over-discharge.
- Smart battery monitoring with internal cell balancing.
- Communication of monitored data via Battery Management System (BMS)
- Fast recharge, can be fully recharged in 2 hour
- Extreme save and durable LiFePO4 battery cell technology

- Longer shelf life
- Continue high energy output.
- No acid leaking
- Environmentally friendly, no heavy metals and minimal disposal issues
- High energy efficiency with no memory effect.
- Lower lifetime costs due to low maintenance and high cycle life
- Intrinsic phosphate safety that protects against abusive situations.
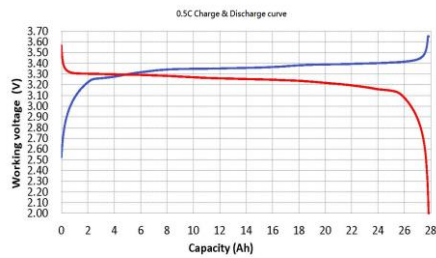- Light weight, easy for handling.
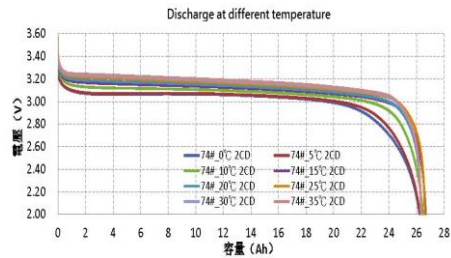
Cycle Life Performance, 100% DOD

1CC/1CD Cycle life @25℃ for cells (70% DOD)

C rate

Discharge Curves

Charge Performance

0.5C Charge & Discharge curve

Discharge Performance, Vs Temperatures

Discharge at different temperature

SPECIFICATION	ACT-24V50FS-M2
Nominal Voltage	24V (30~22V)
Nominal Capacity(C/5@25°C)	50Ah
Internal impedance (1kHz AC)@25°C	$\leqq$ 10 mΩ
Weight	< 19kg
Dimension (mm) BOX	Approx. L 400*W 145*H 200 mm
Box material	Iron(Fe)
Capacity gauge	5 LED indicators
Specific Energy(Cell)	121Wh/kg
Max. cont. discharge@25°C	30A
Max. pulse discharge@25°C (1s)	45A
Discharge cut-off voltage@25°C	22.4V(2.8v/cell)
Charge Current	<30A
Charge voltage	29.2V ±0.2V
Cycle life at 0.2C discharge, 70%DOD <40°C	3000 cycles (SOH70%)
Cycle life at 0.75C discharge, 20%DOD@25°C	12000 cycles (SOH70%)
BMS protection	OVP,LVP,ODCP,OCCP,ODTP,OCTP, cell balance
Communication	RS232
Record	SD card
Discharge temperature range(Cell)	-20°C to 75°C
Charge temperature range(Cell)	-0°C to 50°C
Storage temperature range	-20°C to 55°C
Technology	LiFePO4

LiFe Power Technology Co., Ltd.   URL: www.lifepowertek.com
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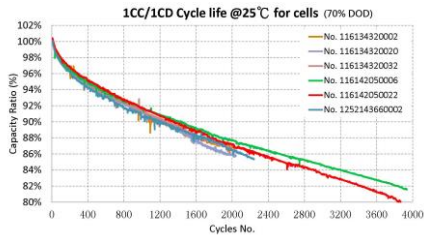
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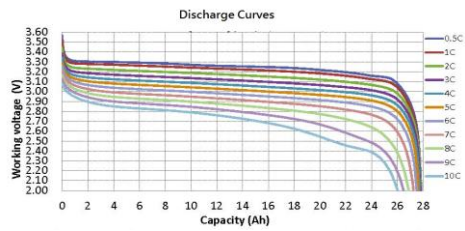
ACT-48V40FS-M1

Key Features:

- High cycles, over 3000 cycles at 70% DOD.
- Built-in automatic protection for over-charge & over-discharge.
- Smart battery monitoring with internal cell balancing.
- Communication of monitored data via Battery Management System (BMS)
- Fast recharge, can be fully recharged in 2 hour
- Extreme save and durable LiFePO4 battery cell technology

- Longer shelf life
- Continue high energy output.
- No acid leaking
- Environmentally friendly, no heavy metals and minimal disposal issues
- High energy efficiency with no memory effect.
- Lower lifetime costs due to low maintenance and high cycle life
- Intrinsic phosphate safety that protects against abusive situations.
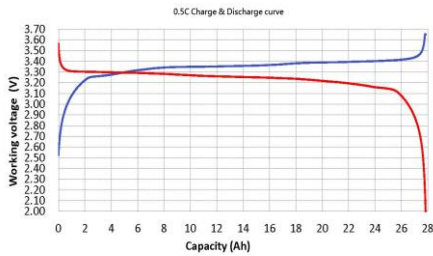- Light weight, easy for handling.
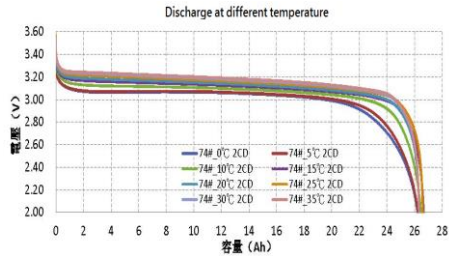
Cycle Life Performance, 100% DOD

C rate

Charge Performance

Discharge Performance, Vs Temperatures

SPECIFICATION	ACT-48V40FS-M1
Nominal Voltage	48V (59~40V)
Nominal Capacity(C/5@25°C)	50Ah
Internal impedance (1kHz AC)@25°C	≦ 28 mΩ
Weight	< 35kg
Dimension (mm) BOX	Approx. L 400*W 230*H 160 mm
Box material	Iron(Fe)
Specific Energy(Cell)	121Wh/kg
Max. cont. discharge@25°C	40A
Max. pulse discharge@25°C (1s)	45A
Discharge cut-off voltage@25°C	40V(2.5v/cell)
Charge Current	<40A
Charge voltage	58.4V ±0.2V
Cycle life at 0.2C discharge, 70%DOD <40°C	3000 cycles (SOH70%)
Cycle life at 0.75C discharge, 20%DOD@25°C	12000 cycles (SOH70%)
BMS protection	OVP,LVP,ODCP,OCCP,ODTP,OCTP, cell balance
Communication	RS485
Discharge temperature range(Cell)	-20°C to 75°C
Charge temperature range(Cell)	-0°C to 50°C
Storage temperature range	-20°C to 55°C
Technology	LiFePO4