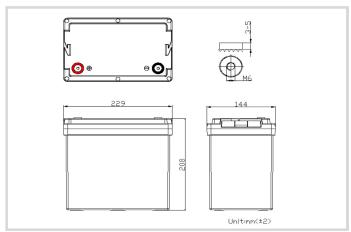
LFP12-50EV (12.8V50Ah)

Suomen Akut LiFePO4 lithium batteries are able to provide you superior performance, durable life cycle, high safety and long lasting reliability under different situations. Suomen Akut insists on using state-of-art of high quality lithium cell and advanced BMS technology, our batteries are robustly designed for wide range applications. Suomen Akut's 12V, 24V, 48V/51.2V series lithium battery, which are popularly used in industrial, residential, commercial and military fields, such as solar/wind energy storage power system, home ESS, telecommunication site, UPS/Data Center backup power, electric vehicle, golf cart, floor machines, forklifts, robotics, marine, RV, medical equipment etc.





BATTERY SPECIFICATIONS

Nominal Voltage12.8VNominal Capacity50Ah@0.5CMin. Capacity50Ah@0.5CNominal Energy640WhInternal Resistance \leq 10mΩ

Cycle Life 3500Cycles @25A Charging/Discharging ,Until 80% Capacity

Self Discharge ≤ 2% per month at 25°C&50%SOC

Bluetooth&Heat Bluetooth and Heat

Standard Charging & Discharge

Charging Voltage 14.0~14.4V
Charging Mode CC-CV
Recommened Charging Current ≤ 25A

Max.Charging Current 50A Continuous charging with this current may trigger BMS temperature protection.

Recommened Discharging Current 25A

Max. Continuous Discharging Current 60A

Max.Pulse Current 150(<10S)

Discharging Cut-off Voltage 10.8

Operating Condition

Charge Temperature 0° C to 45° C(32° F to 113° F) @ $60\pm25\%$ Relative Humidity Discharge Temperature -20° C to 60° C(-4° F to 140° F) @ $60\pm25\%$ Relative Humidity Storage Temperature 0° C to 45° C(32° F to 113° F) @ $60\pm25\%$ Relative Humidity

Structure

Casing Plastic

Dimension(L*W*H*TH) 229*144*208mm Weight Approx. 6.3Kgs

Terminal M6
Water Dust Resistance IP65

Number of batteries used in series and parallel

Maximum number of series connections 4PCS Maximum number of parallel connections 4PCS

LFP12-50EV (12.8V50Ah)

Certifications

UL(Cell)

CE(Cell/Battery)

IEC62133(Cell)

UN38.3(Cell/Battery)

ROHS(Cell)

IEC62619(Cell)

Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	50A	25A	16.7A	12.5A	10A	5A	2.5A

Constant Power Discharge Data (Watts @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	620W	314W	211W	159W	128W	64.5W	32.3W

Market Application















Low-speed car

Golf cart

Light EV

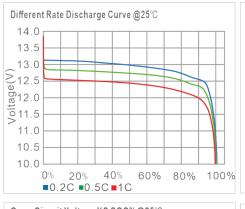
Robotics

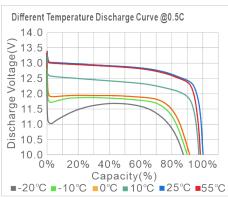
Cleaning

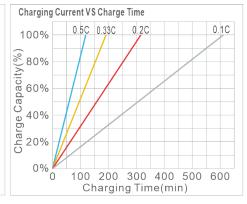
Solar &Wind

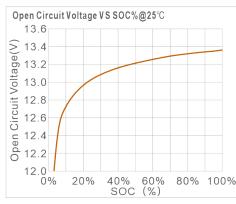
Lighting

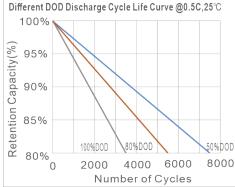
Battery characteristic curve

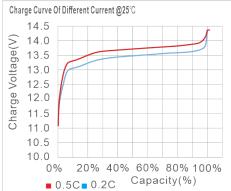












Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.

Note 3: Parallel connection is only for longer backup time, not for larger output power.