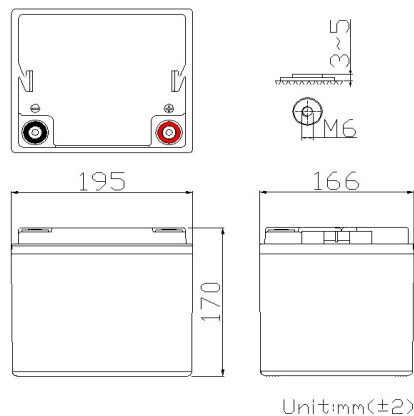


LFP12-50SEV (12.8V50Ah)

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 Voltage	12.8V
Nominal Capacity	50Ah@0.5C
Min. Capacity	50Ah@0.5C
Nominal Energy	640Wh
Internal Resistance	≤ 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
Recommended Charging Current	≤ 25A
Max.Charging Current	50A Continuous charging with this current may trigger BMS temperature protection.
Recommended Discharging Current	25A
Max. Continuous Discharging Current	60A
Max.Pulse Current	150(<10S)
Discharging Cut-off Voltage	10.8

Operating Condition

Charge Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
Discharge Temperature	-20℃ to 60℃(-4℉ to 140℉) @60±25% Relative Humidity
Storage Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity

Structure

Casing	Plastic
Dimension(L*W*H*TH)	195*166*170mm
Weight	Approx. 6.1Kgs
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

LFP12-50SEV (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

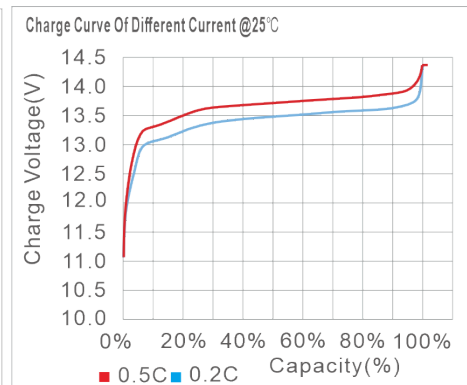
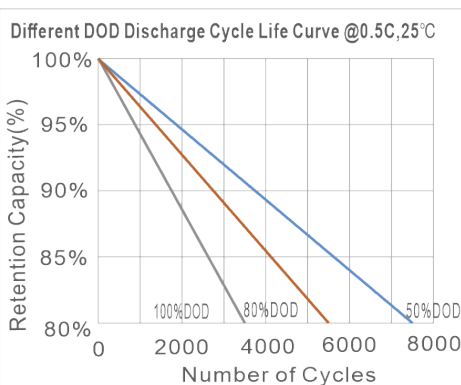
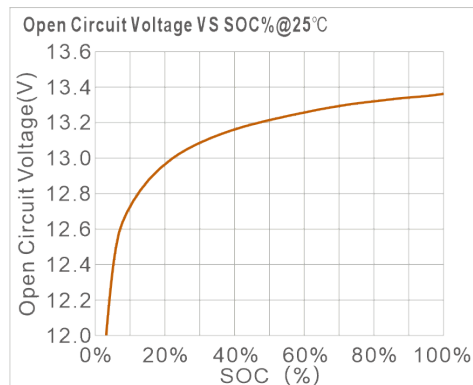
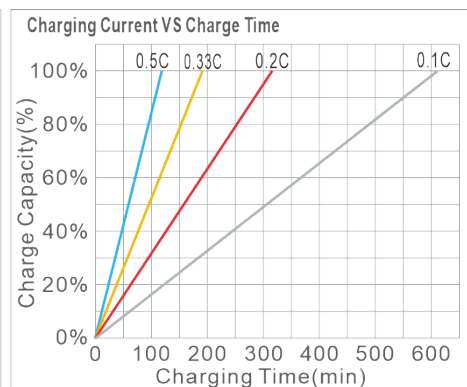
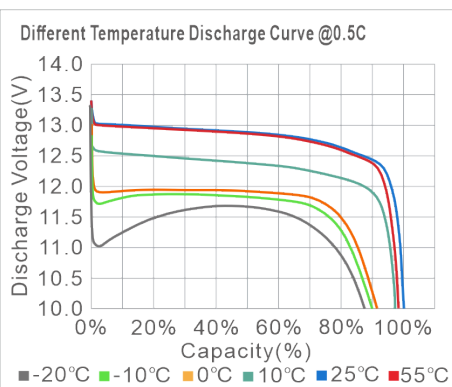
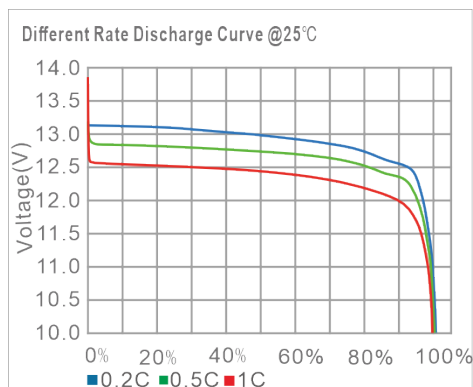


Solar & Wind



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.