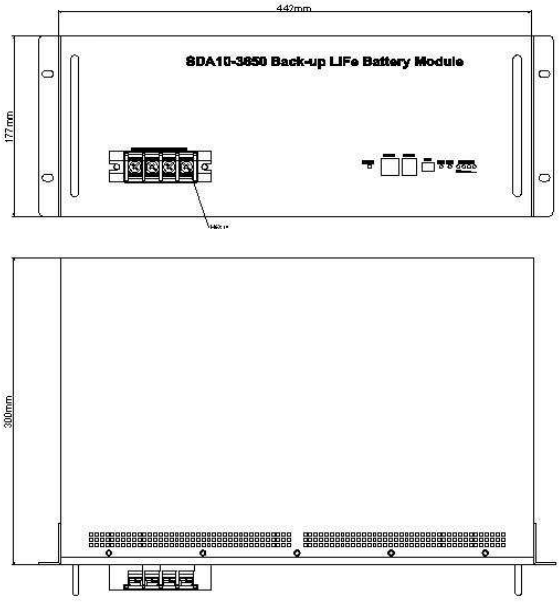
SDA 10-3650 Lithium iron phosphate (LFP) battery



Brief Introduction:

LFP battery system is a high-tech product, it's manufactured and developed successfully by Innovative Energies, The product is mainly used in backup power of telecommunication field. It can support used in parallel.

Attain certificate:

ISO9001(03012Q10124R3M),ISO14001(03011E108R2M),GB/T28001(03012S10050R0M),CE, UL,ROHS.TUV.

Production features:

1、Battery's positive pole using LiFePO4 material with high cycling life and good security feature;
2、The battery system using high performance battery manageme nt system(BMS), the BMS have current, voltage, temperature protect function;
3、Automatic Management of charging and discharging , supervi sion unit automatically measure the batteries' charging and discharging current, and management the batteries' float charge and boost charge;
4、Small in volume and light in weight, reduce about 50% (compared with LA Battery);
5、The battery system has a good electromagnetic compatibility;
6、It also can communication with the remote central control center;
7、Configuration flexible :multi modules can be parallel connected to last long the back up time;
8、Excellent high temperature performance, and air conditionis unnecessary when the ambient temperature is less than +40°C , which can save energy.

Basic parameter:

model	Rated voltage (v)	Rated capacity(Ah)	Body size (do not include the handle) (mm)	weight(kg)
SDA10-3650	36	50	442（wide）×177（high）×300（deep）	About 26.5

Charging parameter:

model	Charging voltage(DCV)		Charging current(A)
	Float voltage(DCV)	Boost voltage(DCV)	
SDA10-3650	42～43.2（suggest 42.6）	43.8～46.2（suggest 45.6）	Charge current limiting the default value is 10A(the maximum can be adjusted to 25A)

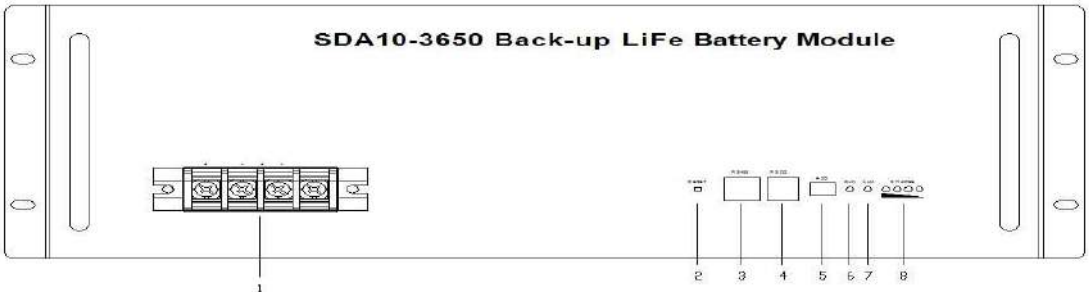
Discharging parameter:

model	Discharging voltage(DCV)	Discharging current(A)
SDA10-3650	30～46.2	≤ 50

Using environment:

number	items	qualification	unit	remarks
1	Charging temperature	-20～+65	°C	Suggestion tem ：-15 ～+50°C
2	Discharging temperature	-20～+65	°C	
3	Store temperature	-30～+70	°C	≤ +30°C@≤6 months ≤ +45°C@≤3 months ＞45°C@ ≤ 1 month
4	relative humidity	5～95	%	No condensation , battery system normally working
5	height	4000	m	if altitude above 2000m, the max working temperature decrease 1°C every 200m.can't higher than 4000m
6	environment	Using in no electric conduction dust and corrode gas place		

SDA 10-3650 LFP battery panel instruction:



1—power interface

2—"RESET"key

3—Cascading Telecommunication(RS485)

4 —Up-link communication(RS232)

5—Address Dial Number(ADD)

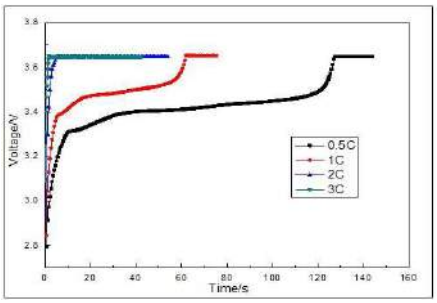
6 —Run light, indicate system operation state

7—Alarm light(ALM)

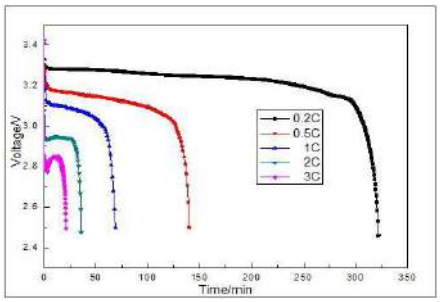
8—battery capacity light(SOC)

Performance Curve:

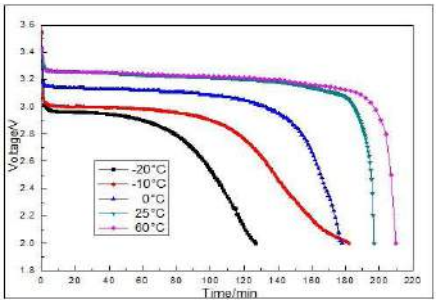
Single cell charge curve@25 °C



Single cell discharge curve@25 °C



Discharge capacity at different temperature



LFP battery discharge cycle at 0.5CA(100%DOD)