

FCB21700

LITHIUM-ION | HYBRID CAPACITOR SOLUTION

(65V25AH)

JINPEI ELECTRONICS CO., LIMITD

2021.04.01

一、General Project Requirements:

No.01 Project Requirements

- Rated Voltage: 65V;
- Discharge Voltage Range: DC45V — DC75.6V;
- Charge Current: 100A
- Dimension: 130*260*450mm
- Temperature Range: 0℃ — 45℃

No.02 Parameter:

P/N: FCB21700L

Fast Charge 3.7V/2.5AH

Series No.	Merits	Values
1	Rated Capacitance	2500mAh
2	CAP-LO	2400mAh
3	Rated Voltage	3.5V
4	VOLT-HI	4.2V
5	VOLT-LO	2.5V
6	DC Internal Resistance (10ms)	≤6mΩ
7	Standard Charge Current	7.5A
8	Fast Charge Current	20A
9	Rated Discharge Current	7.5A
10	Max. Continuous Discharge Current	25A
11	Max. Discharge Current	50A
12	Max. Discharge Continuous Time	5min
13	Discharge&Charge	-40~65℃

	Temperature Range	
14	Storage Temperature Range	-40~65℃
15	Fast Charge Cycle Life (5C Charge3C Discharge)	≥6000 次
16	Weigt	≤65.0g
17	Dimension (D×H)	Φ21.5mm×70.5mm

No.03 Product System Parameter Table

Item	Parameter
Rated Voltage	65V
Working Voltage Range	Is output Voltage 70-74V If Yes, It need add Voltage Stabilizer
Capacitor quantity	18S10P
Total Capacitance	25AH
Total Energy	1625WH
Rated Discharge Current/Max.Discharge Current	50A/100A
Rated Charge Current/Max.Charge Current	500A/100A (Charge Ratio 4C, Charge Time About 20 Minutes)
Working Temperature Range	0℃~+65℃
Dimension	450*250*130mm
Weight	18kg

No.04 Protection plate technical parameters table

Parameter				
Series No.	Item		Standard	Remark
1	Protection For Charge Voltage	Protection For Single	4200±25mV	
		Protection For Single For Delay	1S	
		Single Charge Recover Voltage	4100±25mV	
2	Protection For Discharge Voltage	Single Discharge Protection Voltage	2500±80mV	
		Single Discharge Protection Delay	0.1S	
		Single Discharge Recover Voltage	3000±100mV	
		Relieve Method	Disconnect Load (RL>10MΩ)	
3	Charge Current	Charge Continuous Current	100A	
4	Discharge Current	Discharge Continuous Current	100A	
5	Overcurrent Protection	The Load Current Reaches The Protection Condition	200±10A	
6	Short-Circuit Protection	Short circuit protection current	400±10A	
		Short circuit protection condition	External load short circuit	
		Short circuit detection delay	250uS	
		Short circuit protection relief conditions	External load off	
7	Output Method	Charge and discharge with the same port		
8	Equalizing	Equalizing Current	Passive Equalizing	
		Equalizing Current	80MA	
		Equalizing Switch Voltage	4.18V	
9	Guard	Normal Working	30uA	

	plate power consumption	Low Power Mode	10uA	
10	Port	Can be customized		

No.05 Arrangement And Dimension :

