

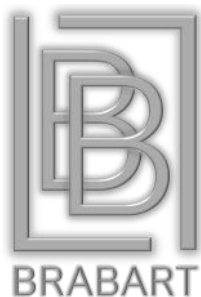


BRABART

Lithium Battery

LiFePO4 - 105Ah 51V

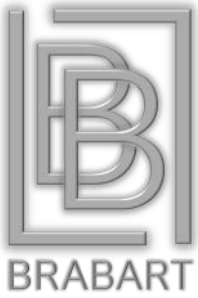




Lithium Battery

LiFePO4 - 105Ah 51V

Item	Unit	Module Specification	Remark	
Nominal Capacity	Ah	105Ah @ 1/2C		
Actual Capacity	Ah	≥105Ah @ 1/2C		
Configuration	-	16S1P		
Operating Temp.	Min.	°C	0 (Charge), -20 (Discharge)	@ Temp Sensor
	Max.	°C	55	
Storage Temp.	Min.	°C	-20	
	Max.	°C	55	
Nominal Voltage	V	51.2	Cell 3.2V	
Max. Voltage	V	58.4	Cell 3.65V	
Min. Voltage	V	40	Cell 2.5V	
Nominal Energy Content	kWh	≥ 5.376 @ 1/2C		
Weight	Kg	≤54		
Resistance Consistency (10s, 25°C, 30%SOC, BOL)	-	-15%/+10% DC-IR		
Discharge Operation max current (10s, 25°C, SOC50%, BOL)	A	120	120 Per 1 module	
Charge Operation max current (10s, 25°C, SOC 50% BOL)	A	90	90Per 1 module	
Continuous Discharge Operation current (25°C, SOC50%, BOL)	A	105	105 Per 1 module	
Continuous Charge Operation current (25°C, SOC 50% BOL)	A	52.5	52.5 Per 1 module	
Standard Charge (@ 25°C)	-	Constant Current: ≤0.5C Constant Voltage:3.65V End Contition(Cut off): ≥0.02C		
The state of charge(SOC) of the module	-	SOC 30%±3%	before shipping	
Self Discharge Rate (SOC 100%, 25°C , Loss/Month, @BOL)	%	Max 3		
Safety and Reliability	-	Compliance with QC/T 743 test standard	GBT Certificate @cell	
Insulation	MΩ	Min 20MΩ/1000VDC, 25°C±5°C, RH50%		
Cooling type	-	Natural(Passive) Convection	(Air Cooling)	



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SOC Operating Range SOC	%	0~ 100%	
IP Grade IP	-	IP67	
Calendar Life (25°C, SOC 100%, EOL 80%)	year	10	
Cycle Life		>3500	25°C, 0.5C charge, 1C discharge, DOD 70%(SOC0~100%)
Capacity at EOL		EOL 70%	According to warranty period, driving pattern, temp. profile, etc

Mounting Hole to pack

- quantity: 4EA
- Recommended Bolt Size: M8
- Size Hole : 10*14
- Recommended Fastening Torque: 12 ± 2N

