

A2D2

LiFePO₄

LiFePO₄ (Lithium Iron Phosphate Battery)

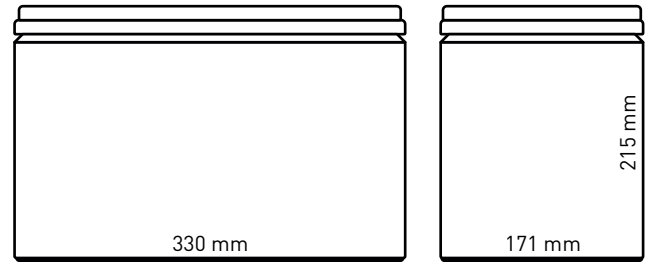
12.8V / 100Ah (1280Wh)

LFA2-12V100C10-M8B1

CHARACTERISTICS

BATTERY SPECIFICATIONS	
Battery type-Chemistry	LiFePO4
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Output Power	1280 Wh
Dimensions (L x W x H)	330 x 171 x 215 mm
Weight	10.5 kg
Terminal Type	M8
Terminal Torque	8.5 Nm
Case Material	ABS
BMS built-in	Yes
Internal Resistance	<25 mΩ
Efficiency	>99.5 %
Self Discharge per Month	<3 %
Cycle Life (0.2C, 25 °C@100% DOD)	6000 Cycles
Discharge Temperature	(-20 to 60) °C
Charge Temperature	(0 to 45) °C
Storage Temperature	(-10 to 30) °C
Bluetooth	Yes
LCD Screen	-
Heating Function	-
Voltage Window	10.8-14.6 V
Recommended Charge Voltage	14.6V ±0.20V
Max Charge Voltage	14.6V ±0.20V
Recommended Charge Current	25 A
Max Continuous Charge Current	50 A
Recommended Discharge voltage	11.2V ±0.20V
Max Discharging Voltage	10.8V ±0.20V
Max Continuous Discharge Current	100 A
Peak Discharge Current	180 A (5S±3S)
BMS CHARACTERISTICS	
Single Charge Current	110A Delay Time: 1000ms
Secondary Charge Current	180A Delay Time: 500ms
Single Discharge Current	180A Delay Time: 5s ±3s
Secondary Discharge Current	250A Delay Time: 3s ±2s
Over Charge Voltage protection (cell)	3.75V Delay Time: 500ms
Over Discharge Voltage protection (cell)	2.2V Delay Time: 500ms
Temperature Protection PCB	≥95 °C / Recover ≤85 °C
The maximum number of strings supported by the battery pack	≤4PCS
The maximum number of battery packs supported in parallel	Increase capacity without increasing Current

DIMENSIONS



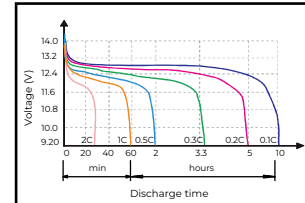
Constant Current Discharge (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	100A	50A	33.4A	25A	20A	10A	5A

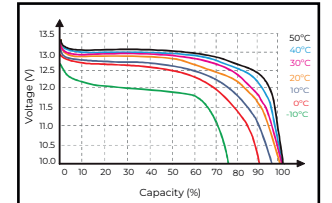
Constant Power Discharge (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	1280W	640W	426W	320W	256W	128W	64W

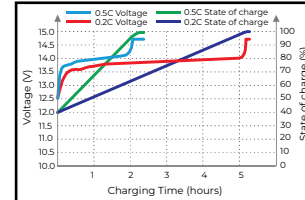
DISCHARGE CHARACTERISTICS (25°C)



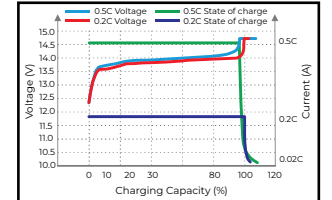
TEMPERATURE EFFECTS ON DISCHARGE (0.5C)



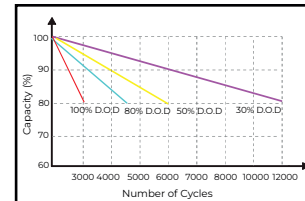
CHARGING TIME ON S.O.C. (25°C)



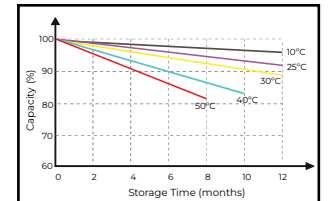
CHARGE CHARACTERISTICS (25°C)



CYCLE LIFE ON D.O.D. (25°C)



SELF DISCHARGE CHARACTERISTICS



D.O.D. - depth of discharge, S.O.C. - state of charge

Parallel connection: Please full discharge batteries, then recharge after parallel connected. Parallel connection is only for longer backup time, not for larger output power.
Series connection: Please keep batteries with same remain capacity.