

A2D2

LiFePO₄

LiFePO₄ (Lithium Iron Phosphate Battery)

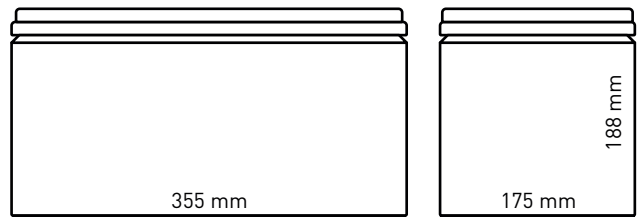
12.8V / 100Ah (1280Wh)

LFA2-12V100C10-F15B1

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) | 355 x 175 x 188 mm |
| Weight | 9.5 kg |
| Terminal Type | F15 |
| 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 | (0 to 35) °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 (5±3S) |
| BMS CHARACTERISTICS | |
| Primary Charge Protection | 110A Delay Time: 1000ms |
| Secondary Charge Protection | 180A Delay Time: 500ms |
| Primary Discharge Protection | 180A Delay Time: 5s ±3s |
| Secondary Discharge Protection | 250A Delay Time: 3s ±2s |
| Overcharge Voltage Protection (cell) | 3.75V Delay Time: 500ms |
| Overdischarge 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



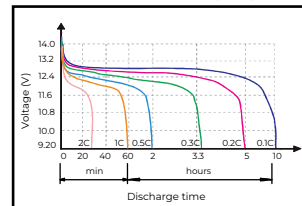
Constant Current Discharge (Amperes @ 25°C)

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

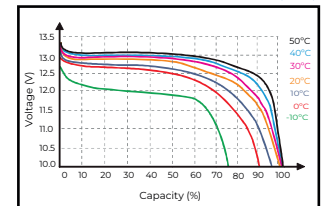
Constant Power Discharge (Watts @ 25°C)

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

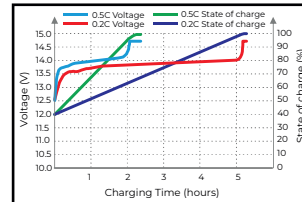
DISCHARGE CHARACTERISTICS (25°C)



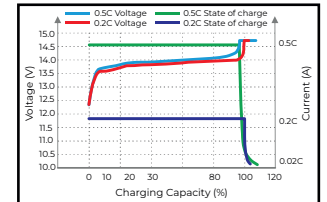
TEMPERATURE EFFECTS ON DISCHARGE (0.5C)



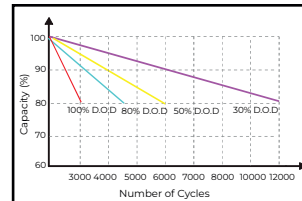
CHARGING TIME ON S.O.C. (25°C)



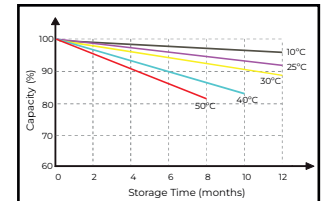
CHARGE CHARACTERISTICS (25°C)



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.