



Voltage: 51.2V | Capacity: 105Ah | Energy: 5376W

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	105Ah
BMS	Allied Proprietary Relay
Capacity @ 20A	315 min
Efficiency	>98%
Self Discharge	1-3% (In Sleep Mode)
Maximum Modules in Parallel	2

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	18.5" x 11.5" x 10.1"
Weight	108 lbs
Terminal Type	M8
Terminal Material	Nickel-plated Copper
Case Material	SPCC
Enclosure Protection	IP66
Cell Type - Chemistry	Prismatic LiFePO4

DISCHARGE SPECIFICATIONS

Max Continuous Current	180A
Peak Discharge Current	350A (10s)
Peak Instantaneous Current	600A±50A (3s)
Low Voltage Disconnect	40V
BMS Discharge Voltage Cut-Off	40.0V (2.5±0.05 vpc)
Reconnect Voltage	44.8V (2.8±0.1 vpc)
Short Circuit Protection	200-400ms

BLUETOOTH FEATURES

Voltage (overall and individual cell voltages)
Remaining Discharge Time
Remaining Charge Time
Current Amp Draw
Current Cell Temperature
Voltage of Individual Cells
Lifetime Power Cycles

CHARGE SPECIFICATIONS

Recommended Charge Current	15A - 30A
Discharge Temperature	15° to 140°F
Charge Temperature*	32° to 120°F
Recommended Charge Voltage	58.4V
BMS Charge Voltage Cut-Off	58.4V
Reconnect Voltage	54.4V

KEY FEATURES

2 Amp Internal Balancer (80 times faster)
BMS languages - CANbus & RS485
Sleep Mode
Fire Arrestor
Thick Steel Casing
Bluetooth Enabled

SAFETY SPECIFICATIONS

ALL VISIBLE ON THE ALLIED BATTERY BLUETOOTH APP

Short Circuit	Yes
Low / High Temperature Discharging	Yes
Low / High Temperature Charging	Yes
Over-Current Discharging	Yes
Over-Current Charging	Yes
Pack Under / Over Voltage	Yes
Certifications	• UL1973 & UL2580 (Battery Safety) • IEC62660 & IEC62619 (Performance & Industrial Safety) • CB & CE (International/EU Compliance) • REACH & RoHS (Chemical/Environmental Safety) • UN38.3 + Sea & Air Transport Reports (Shipping Safety) • MSDS (Material Safety Data)
Shipping Classification	UN 3480 Class 9

DIMENSIONAL SPECIFICATIONS

