

LITHIUM IRON PHOSPHATE BATTERY — LP15-24120

## ELECTRICAL PERFORMANCE

Nominal Voltage	25.6 V
Nominal Capacity	120 Ah
Capacity @ 20A	300 min
Energy	3072 Wh
Resistance	≤40 mΩ @ 50% SOC
Self Discharge	<3% / Month

## **CHARGE PERFORMANCE**

Recommended Charge Current	20A
Maximum Charge Current	100A
Recommended Charge Voltage	29.2V
BMS Charge Cut-Off Voltage	<31.2 V (3.9V/Cell)
Reconnect Voltage	>28.8 V (3.6V/Cell)
Balancing Voltage	<28.8 V (3.6V/Cell)
Maximum Batteries in Series	8 (*Consult MUST)

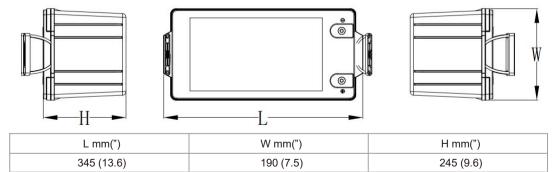
## **DISCHARGE PERFORMANCE**

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (3s)
BMS Discharge Cut-Off Current	300 A ±10 A (31ms)
Recommended Low Voltage Disconnect	22 V (2.75V/Cell)
BMS Discharge Cut-Off Voltage	>16.0 V (2s) (2.0V/Cell)
Reconnect Voltage	>20.0 V (2.5V/Cell)
Short Circuit Protection	250 ~ 500 μs

## COMPLIANCE

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

## **OUTLINE DIMENSION**



Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.



## **MECHANICAL PERFORMANCE**

Dimension (L x W x H)	345 x 190 x 245 mm 13.6 x 7.5 x 9.6"
Approx. Weight	27.8 lbs (30 kg)
Terminal Type	DIN POST
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS+PC
Enclosure Protection	IP65

## **TEMPERATURE PERFORMANCE**

Discharge Temperature	-4 ~ 131 °F (-20 ~ 55 °C)
Charge Temperature	-4 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)

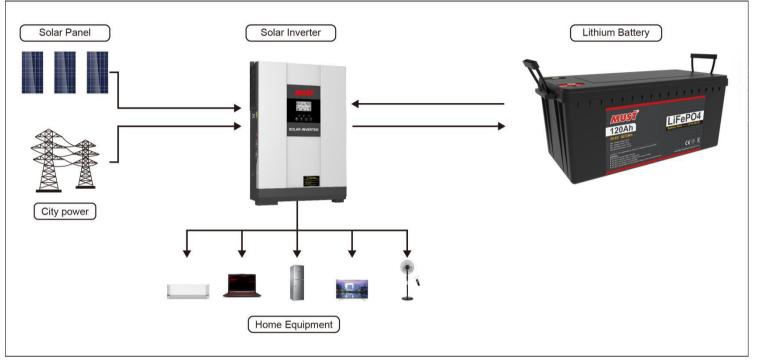
## **HEATING FOIL PERFORMANCE**

Heating Temperature Range	-4 to 41 °F (-20 to 5 °C)
Heating Time	Approximately 1 hour @ 7.5 A
BMS Heating Foil Cut-Off	158 °F (70 °C)



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### SYSTEM DIAGRAM



## **FEATURES & BENEFITS**

#### High cycle life

4000 cycles @80% DoD for effectively lower total of ownership cost.



## Longer service life

Low maintenance batteries with stable chemistry.



#### **Built in circuit protection**

Battery Management System (BMS) is incorporated against abuse.

#### Better storage

up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



#### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



#### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.

# LIGHTWEIGHT

## Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

## **APPLICATIONS**

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries. Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more
- UPS

## CAUTIONS

- Do NOT short circuit, reverse polarity, crush or disassemble.
- · Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. The storage area should be clean, cool, dry and ventilated.

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