

RM12-300LFP

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8 V
Nominal Capacity	300 Ah
Capacity @ 60A	300 min
Energy	3840 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	LFP Cell 3.2V

CHARGE PERFORMANCE

Recommended Charge Current	60 A
Max Charge Current	150 A
Recommended Charge Voltage	14.6 V
Charge Cut-Off Voltage	14.6 V
Reconnect Voltage	>14V
Balancing Voltage	<13.6V
Maximum Batteries in Series	4
Bluetooth Test Window	Yes

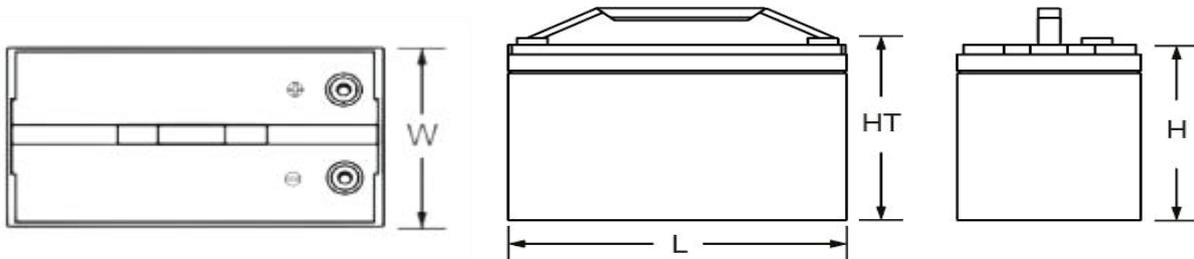
DISCHARGE PERFORMANCE

Continuous Discharge Current	60 A
Maximum continuous Discharge Current	200 A
Peak Discharge Cut-Off Current	450 A (3s)
Discharge Cut-Off Voltage	10 V
Reconnect Voltage	>11.2 V
Short Circuit Protection	200 ~ 600 μs

COMPLIANCE

Certifications	CE UN38.3 UL1973 & IEC62619
Shipping Classification	UN 3480, CLASS 9

OUTLINE DIMENSION



L mm(“)	W mm(“)	H mm(“)	HT mm(“)
522 (20.55)	240 (9.45)	218 (8.58)	



MECHANICAL PERFORMANCE

Dimension (L x W x H)	522 x 240 x 218 mm 20.55 x 9.45 x 8.58”
Approx. Weight	About 27 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65

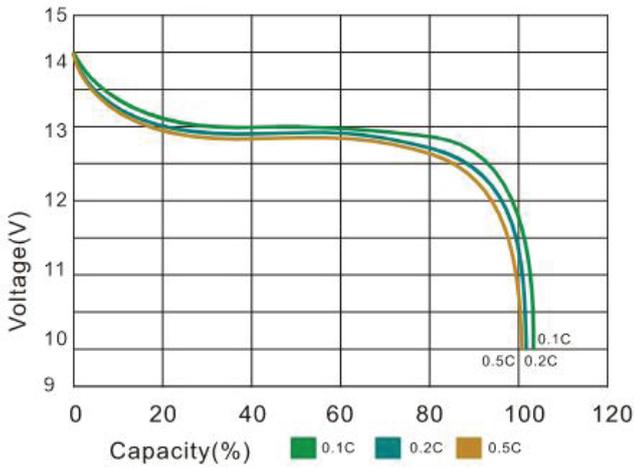
TEMPERATURE PERFORMANCE

Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	118 °F (48 °C)

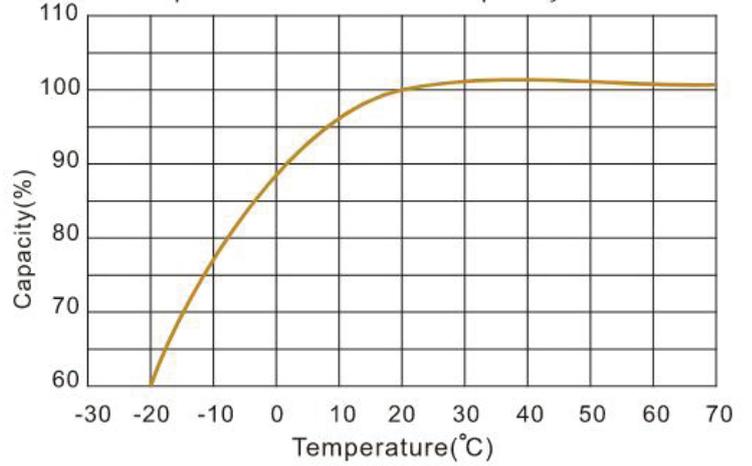
Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

PERFORMANCE CHARACTERISTICS

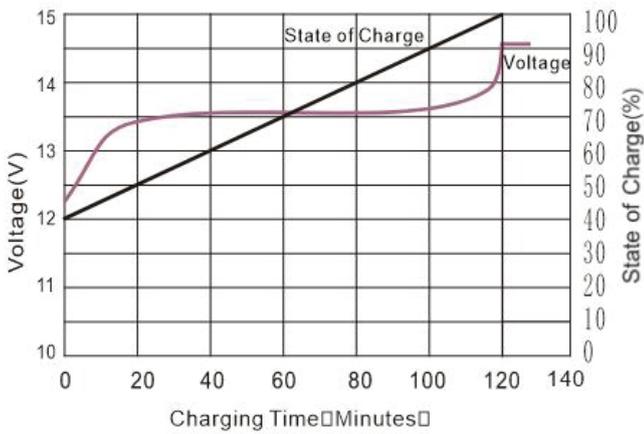
Discharge Performance at 25°C



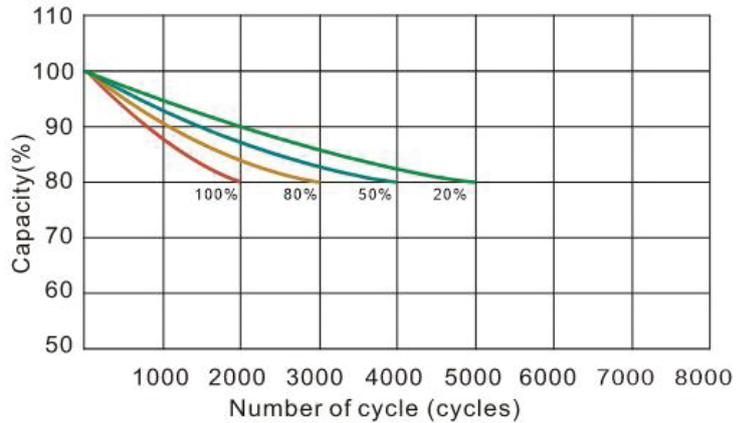
Temperature effects on capacity at 0.5C



State of Charge Curve (0.5C, 25°C)



Cycle life with DOD at 25°C, 0.5C



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FEATURES & BENEFITS

**High cycle life**

>**3000 cycles @80%** DoD for effectively lower total cost of ownership.

**Longer service life**

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models

**Built in circuit protection**

Battery Management Systems (BMS) are 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**

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

CAUTIONS

- **Do NOT** short circuit, crush or disassemble.
- **Do NOT** heat or incinerate.
- **Do NOT** immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.

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