

## 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      |

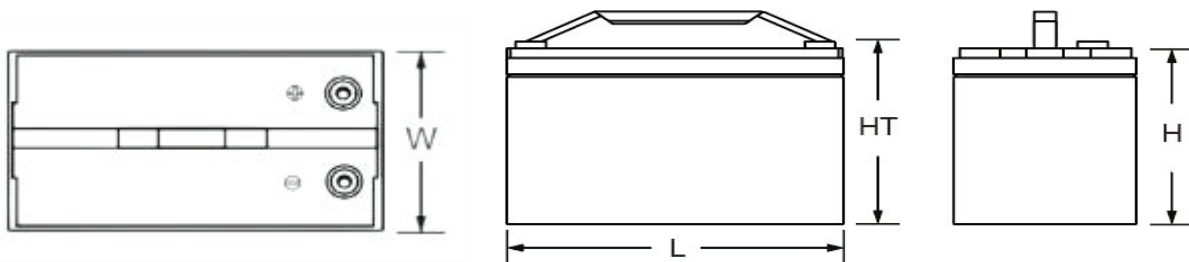
### DISCHARGE PERFORMANCE

|                                      |              |
|--------------------------------------|--------------|
| 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<br>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

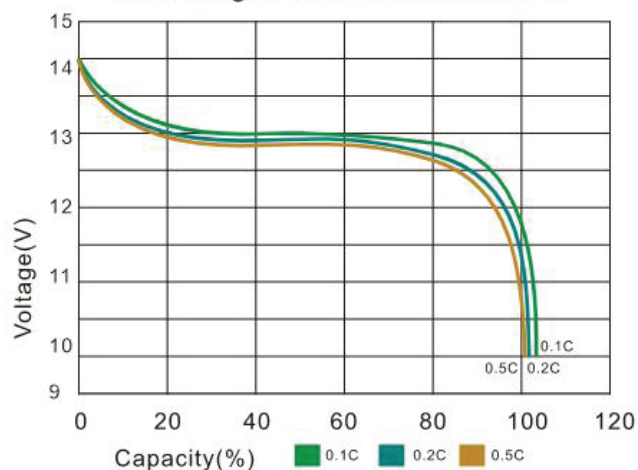
|                          |                           |
|--------------------------|---------------------------|
| Discharge Temperature    | -4 ~ 140 °F (-20 ~ 60 °C) |
| Charge Temperature       | 32 ~ 113 °F (0 ~ 45 °C)   |
| Storage Temperature      | 23 ~ 95 °F (-5 ~ 35 °C)   |
| High Temperature 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.

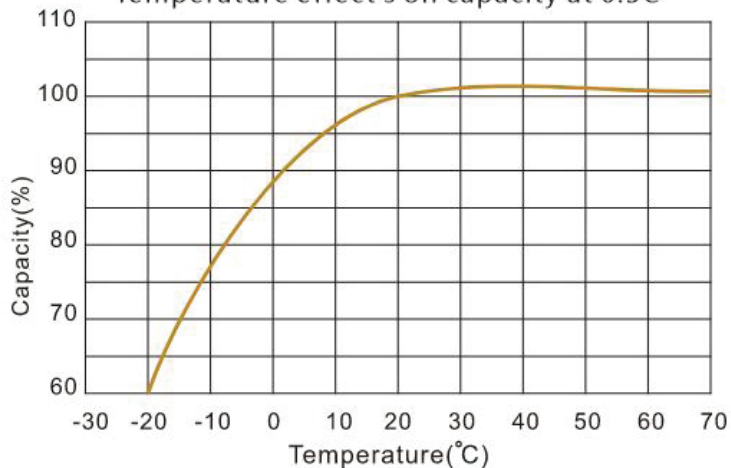
## RM12-300LFP

## PERFORMANCE CHARACTERISTICS

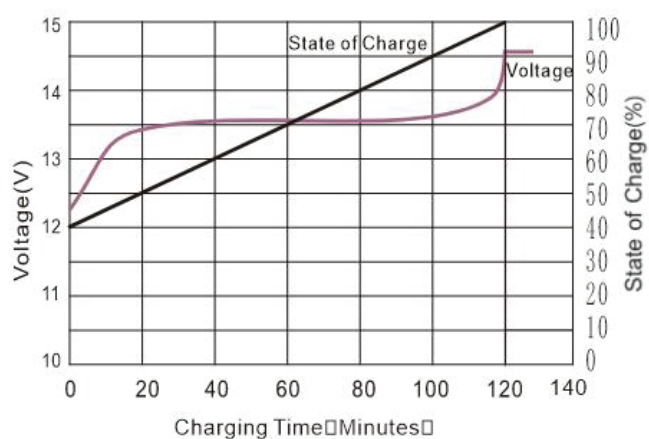
Discharge Perform ance at 25°C



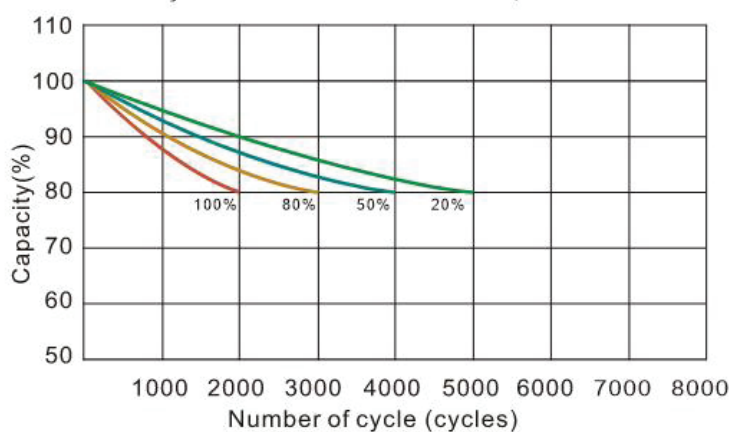
Temperature effect s on capacity at 0.5C



State of Charge Curve (0.5C, 25°C)



Cycle life with DOD at 25°C, 0.5C



## RM12-300LFP

## FEATURES &amp; 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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