

RM12-105LFP

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8 V
Nominal Capacity	105 Ah
Capacity @ 15.6A	300 min
Energy	1344 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Prismatic Cell 105Ah

CHARGE PERFORMANCE

Recommended Charge Current	20 A
Max Charge Current	50 A
Recommended Charge Voltage	14.6 V
Charge Cut-Off Voltage	<14.6 V
Reconnect Voltage	>14
Balancing Voltage	<13.6 V
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4

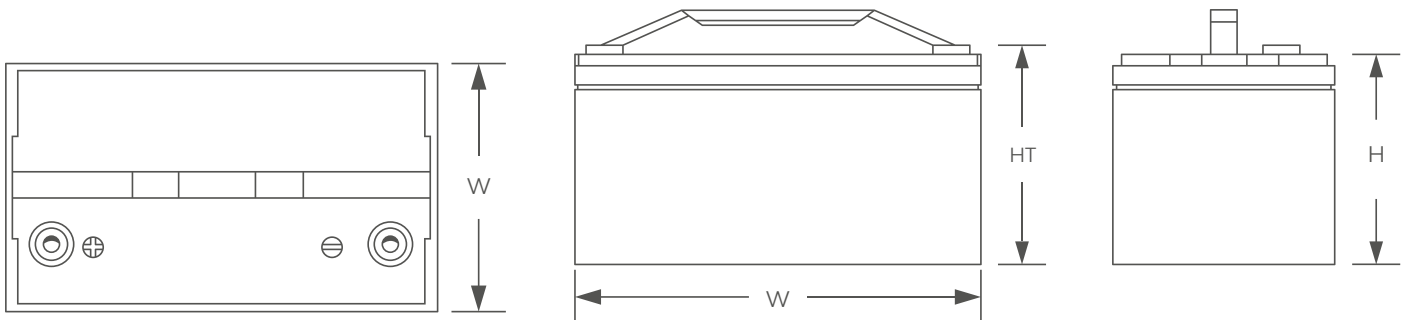
DISCHARGE PERFORMANCE

Continuous Discharge Current	50 A
Maximum continuous Discharge Current	100 A
Peak Discharge Cut-Off Current	300 A (5 -15 ms)
Recommended Low Voltage Disconnect	10 V
Discharge Cut-Off Voltage	10 V
Reconnect Voltage	>11.2 V
Short Circuit Protection	200 ~ 600 μs

COMPLIANCE

Certifications	CE UN38.3 UL1642 & IEC62133
Shipping Classification	UN 3480, CLASS 9

OUTLINE DIMENSION



L mm(“)	W mm(“)	H mm(“)	HT mm(“)
307 (12.01)	168 (6.61)	221 (8.7)	



MECHANICAL PERFORMANCE

Dimension (L x W x H)	307 x 168 x 221 mm
Approx. Weight	11 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Bluetooth Test Window	Yes
Case Material	ABS
Enclosure Protection	IP65

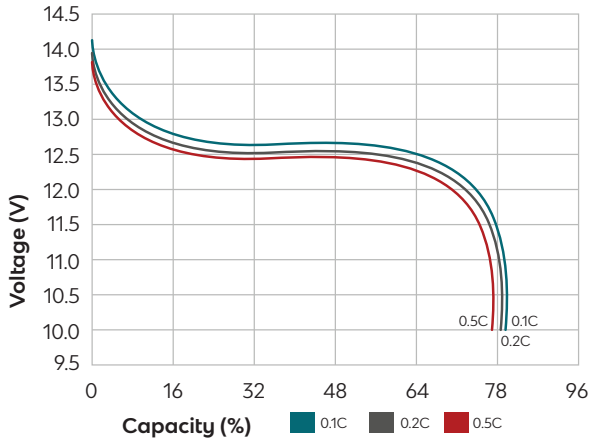
TEMPERATURE PERFORMANCE

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)

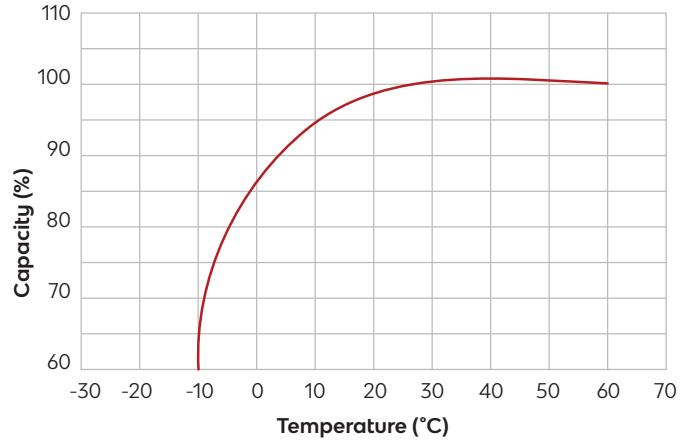
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PERFORMANCE CHARACTERISTICS

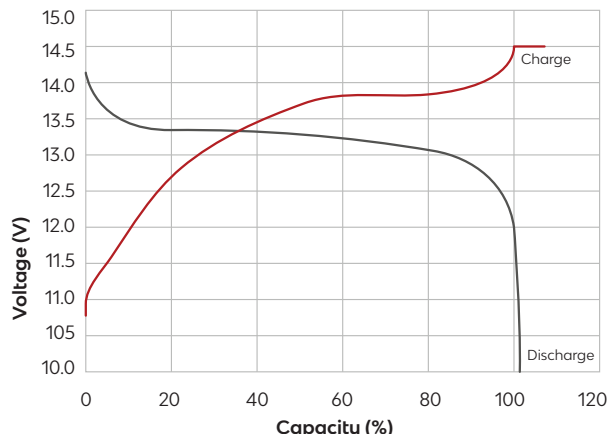
Discharge Performance at 25°C



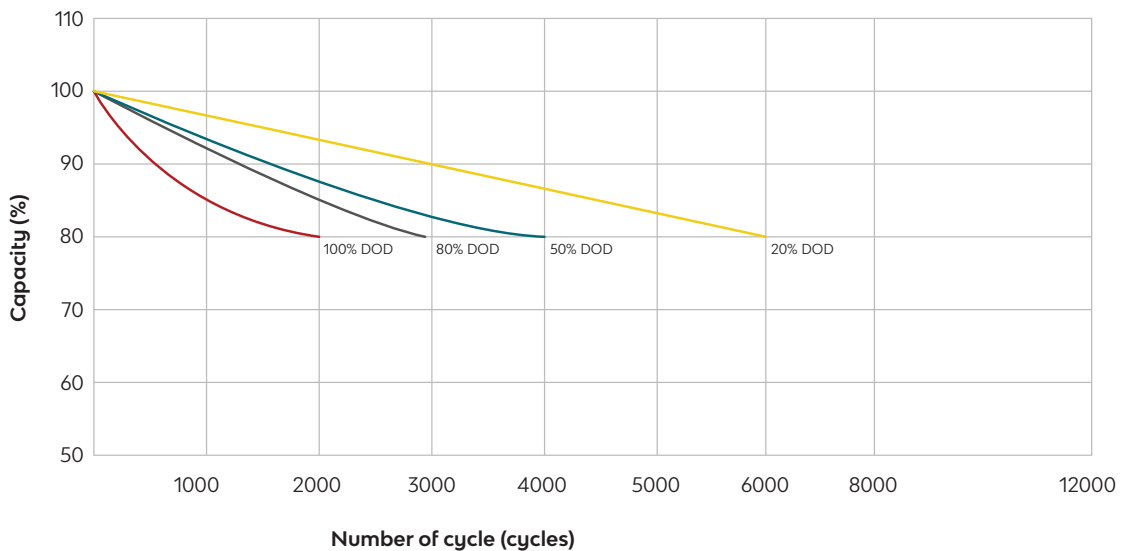
Temperature effects on capacity at 0.2C



Charge and Discharge at 25°C, 0.2C



Cycle life with DOD at 25°C, 0.2C



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FEATURES & BENEFITS



High cycle life
> 3000 cycles @80% DoD



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

FEATURES & BENEFITS

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.

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.

