W-12/100E

12 VDC – 100 A LI-ION BATTERY WITH INTEGRATED BLUETOOTH

W-12/100E

Lithium-Ion Battery 100A-12Vdc 4000 Cycles

ELECTRICAL DATA	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Resistance	≤20 mΩ @ 50% SOC
Self-Discharge	<3% / Month
Cells	Prismatic Cell 100Ah

MECHANICAL PERFORMANCE	
Dimensions (L x W x H)	329 x 172 x 214mm
Approx. Weight	10.3kg
Terminal Type	M8 (live terminals)
Terminal Torque	(9 N-m)
Case Material	ABS
Enclosure Protection	IP65 (live terminals not protected)

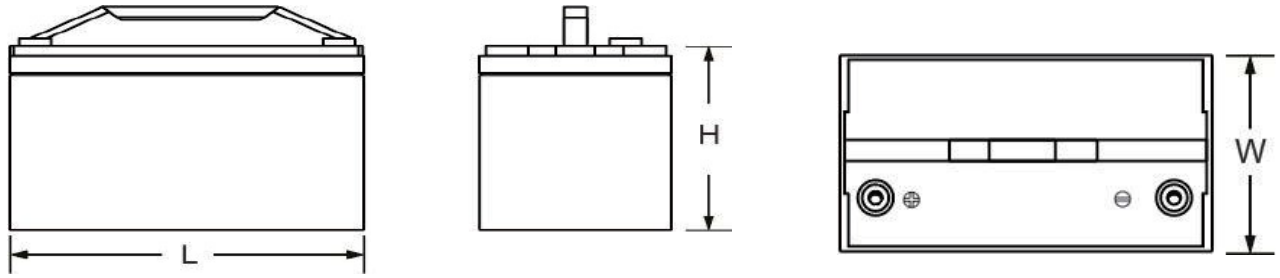
CARGING DATA	
Standard Charge Current	20 A
Maximum Charge Current	50 A
Charging Voltage	14.6 V
Charge Cut-Off Voltage (	<15.0 V (0.5 ~ 1.5 s)
Reconnect Voltage	>14.4 V
Floating Voltage	<14 V
Maximum Batteries in Series	4 *12.8V
Maximum Batteries in Parallel	4*100A

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

STANDARDS	
Certifications	CE FCC ROHS UN38.3 UN 3480, CLASS 9

DISCHARGING DATA	
Standard Discharge Current	50 A
Maximum Discharge Current	100 A
Peak Discharge Cut-Off Current	3C 2s
Low Voltage Disconnect	10.1 V (inverter setting 10.5V)
Discharge Cut-Off Voltage	10 V (manual restart)
Reconnect Voltage	11.2 V
Short Circuit Protection	200 ~ 600 µs

DIMENSIONS

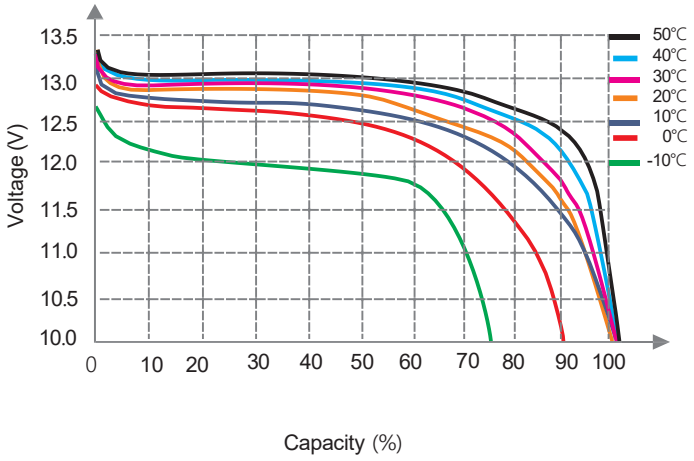


L mm (")	W mm (")	H mm (")
329 (12.96)	172 (6.77)	214(8.43)

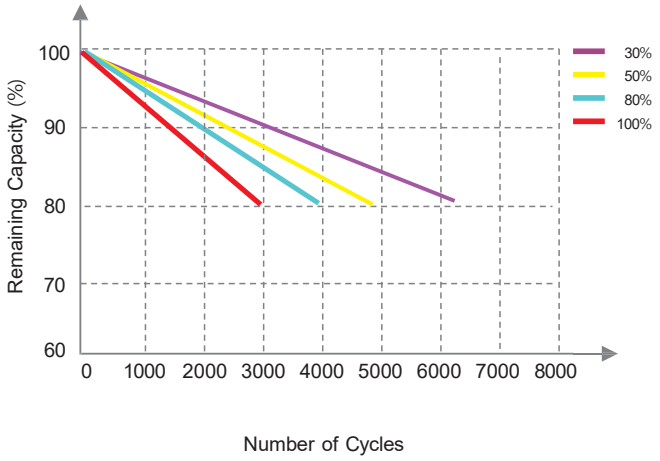
Performances

PERFORMANCECHARACTERISTICS

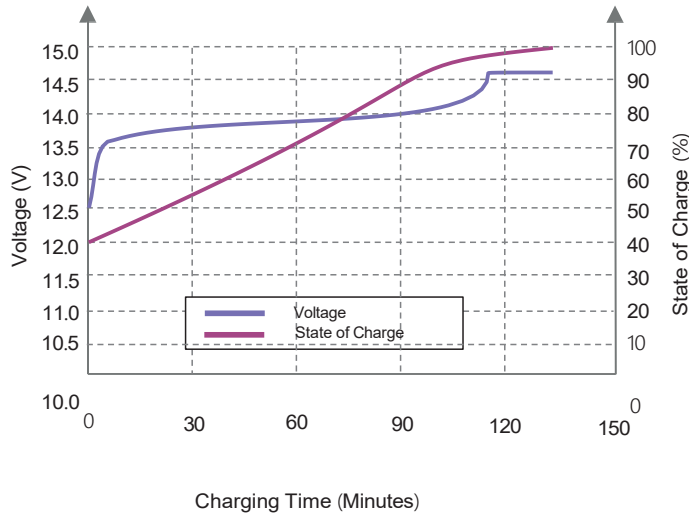
Discharge Temperature Vs Voltage



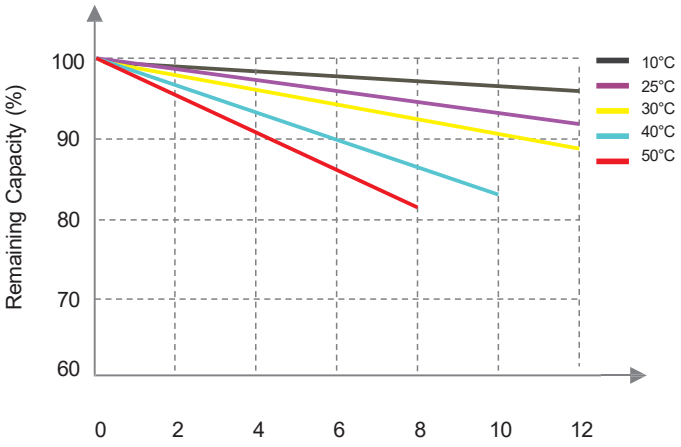
Different DOD Discharge Cycle Life Curve(1C)



State of Charge Curve(0.5C, 25 °C)



Different Temperature Self Discharge Curve



FEATURES

Built in circuit protection
Battery Management Systems (BMS) are incorporated against abuse.

Better storage
Up to 6 months due to the extremely low-self discharge (LSD) rate and no risk of sulfation.

Quickly recharge
Save time and increase productivity with less down time due 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 must be clean, cool, dry and ventilated.

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