



VISION GROUP
Shenzhen Center Power
Tech.Co.Ltd.,

Lithium Iron Phosphate Battery

V-LFP12V100Ah



ELECTRICAL PERFORMANCE	
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 3.2V100Ah

CHARGE PERFORMANCE	
Recommended Charge Current	20 A
Maximum Charge Current	50 A
Recommended Charge Voltage	14.6 V
Charge Cut-Off Voltage	<15.2 V (0.5 ~ 1.5 s)
Reconnect Voltage	>14.4 V
Balancing Voltage	<14 V
Extensions(optional)	Bluetooth/Max 4 serial

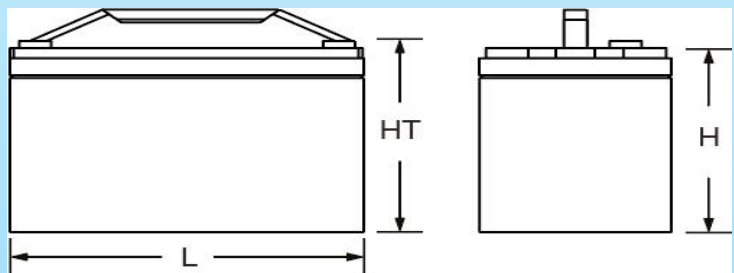
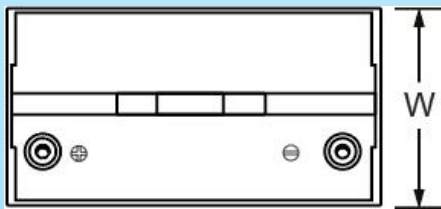
DISCHARGE PERFORMANCE	
Continuous Discharge Current	50 A
Maximum continuous Discharge Current	150 A
Peak Discharge Cut-Off Current	450 A(5 ~15 ms)
Recommended Low Voltage Disconnect	10 V
Discharge Cut-Off Voltage	>8.4 V (50 ~ 150 ms)
Reconnect Voltage	>10 V
Short Circuit Protection	200 ~ 600 μs

MECHANICAL PERFORMANCE	
Dimension (L x W x H)	330 x 172 x 223 mm 12.99 x 6.77 x 8.8"
Approx. Weight	11.7 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Bluetooth Test Window	Belt Bluetooth
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)

COMPLIANCE	
Certifications	CE UN38.3 UL1973 & IEC62133
Shipping Classification	UN 3480, CLASS 9

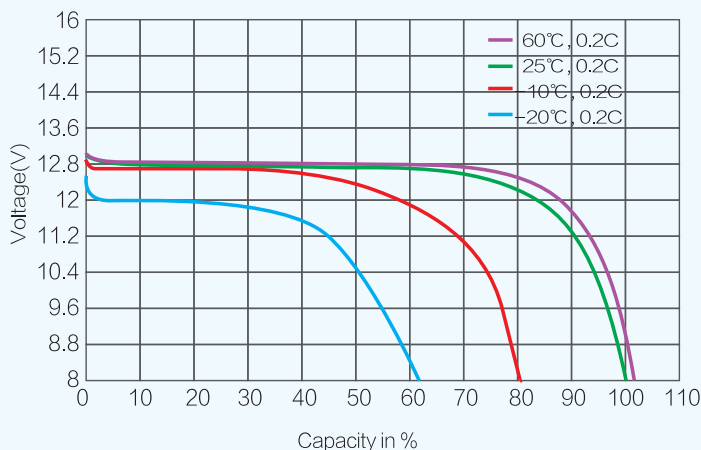
OUTLINE DIMENSION



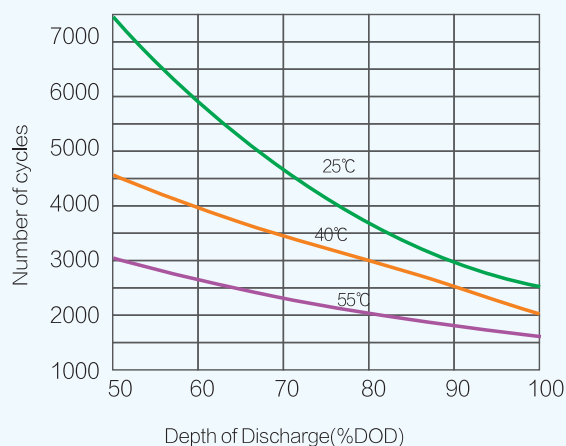
L mm(")	W mm(")	H mm(")	HT mm(")
330 (12.99)	172 (6.77)	223(8.8)	

PERFORMANCE CHARACTERISTICS

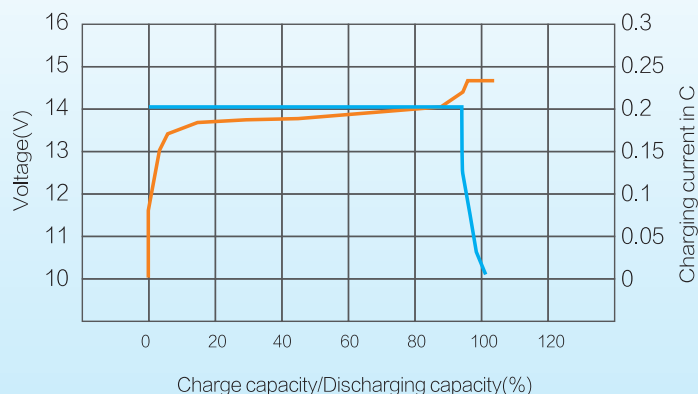
Discharge curves under different temperatures



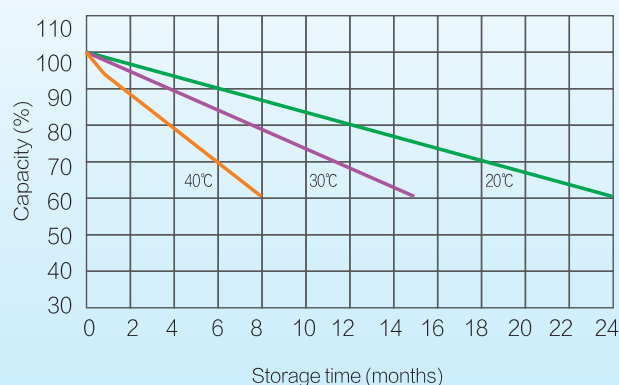
Cycle life versus DOD and temperature at 0.2C



0.2C CC-CV charge characteristic



Self-discharge characteristic



FEATURES & BENEFITS



High cycle life

>2000 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.



Quickly recharge

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

APPLICATIONS

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

- Forklift
- Golf Car
- Solar Storage
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.

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.