



Lithium Battery Module

▶ VT12100

VT12100 integrated with A-grade prismatic LFP cell and self-developed BMS. Follow VRLA dimensions, which can be easily and widely used in backup stations, solar power system, ESS, EV, UPS etc.

■ Safety

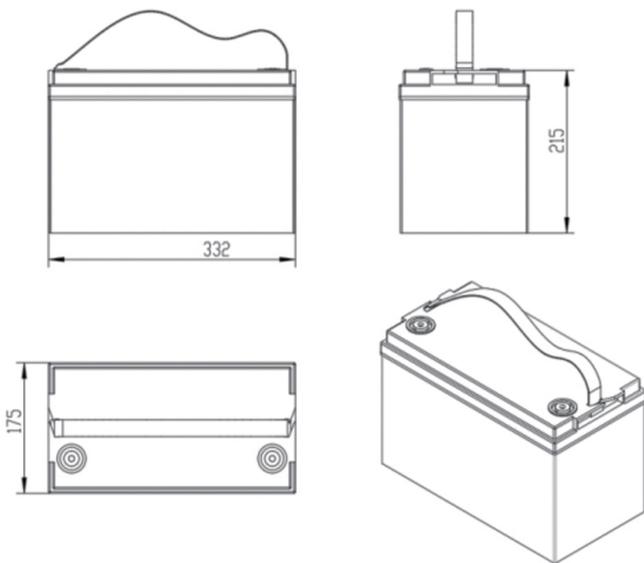
- Prismatic LFePO₄ cells, Longer cycle life and much more safety
- IEC62133,UL,UN38.3 certification for cell.
- P65 protection level, water-proof
- The cycle life over 3500 times @100%DOD.

■ Design

- ABS container, replace VRLA battery perfectly.
- Fast charge design, charge/discharge rate is 1C
- -20~+55°C widely temperature range.
- Maintenance free.

■ Battery Management System(bms)

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- OVP, UVP, OTP, UTP, OCP, short-circuit protection

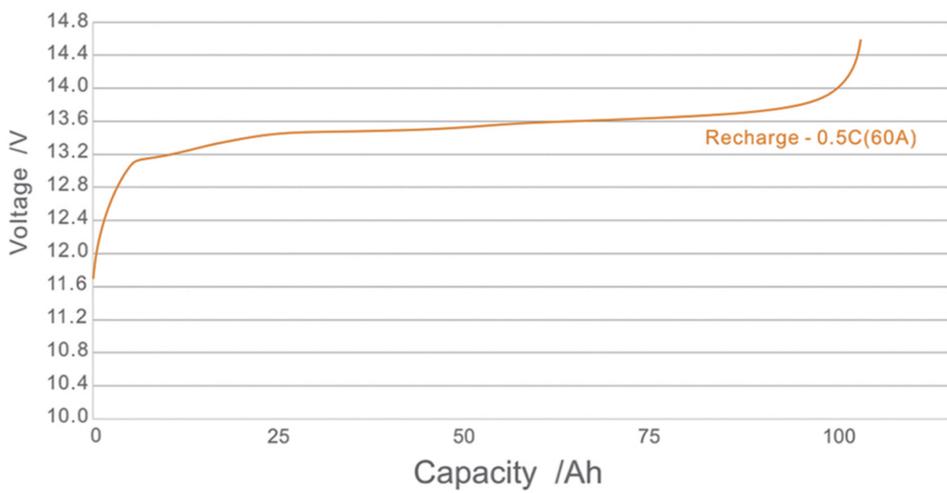


■ Specifications

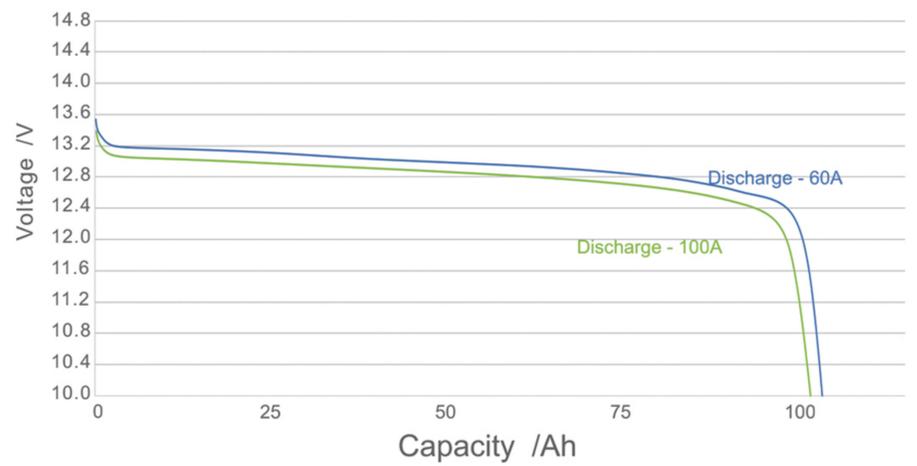
Item	VT12100
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Total Energy	1.28 kWh
Product Weight	11±0.5 kg
Max.Discharge Current	100 A
Max.Charge Current	50 A
Charging Voltage	14.6 V
Operating Humidity	0~95%RH (NO condensing)
Protection Class	IP65
Operating Temperature Range	Charge: 0~+45°C/32~113°F Discharge:~20~+55°C/-4~131°F
Storage Temperature	-20~+60°C/-4~+140°F
Cycle Life	>3500 cycles (0.2C, 80%DOD, 25°C, 80%EOL)
Product Dimension (W*D*H)	332*175*215 mm

VT12100

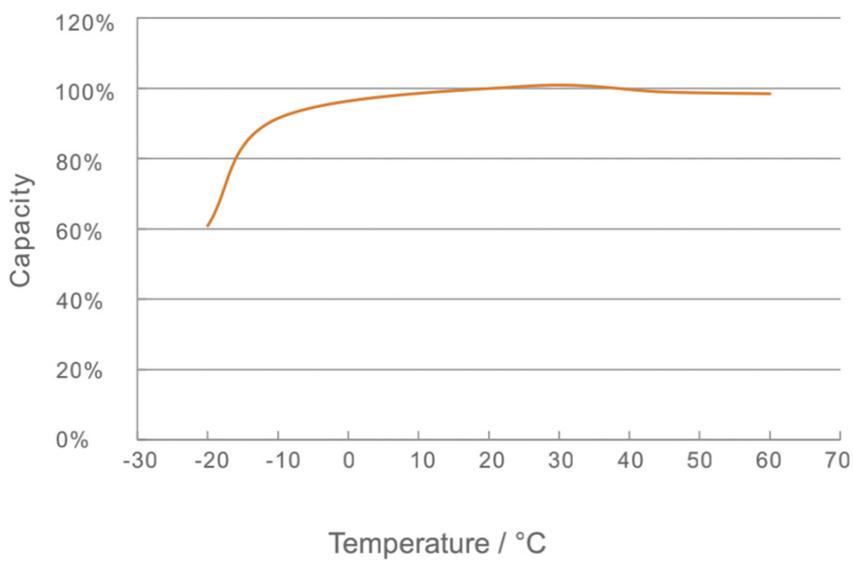
Charging characteristics@25°C



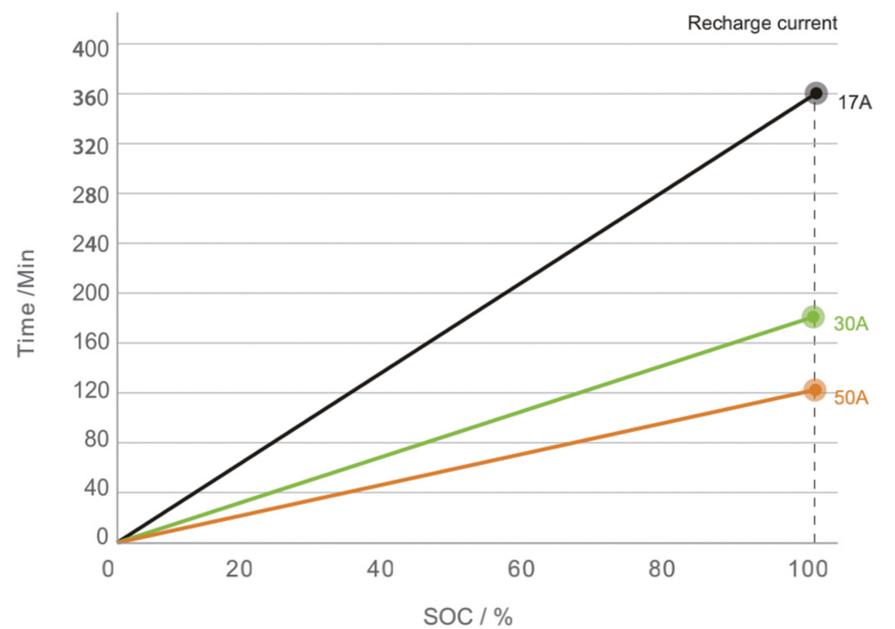
State of Discharge Curve@25°C



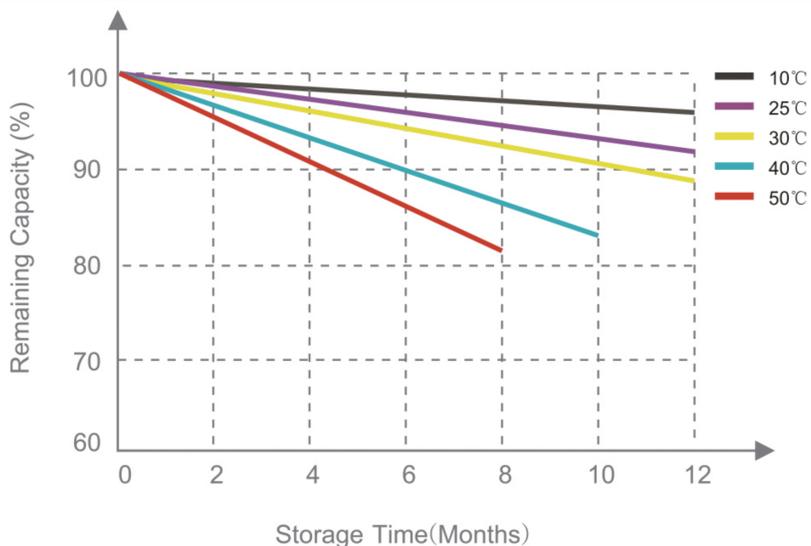
Capacity with Different Temperature



Typical Recharge Time



Different Temperature Self Discharge Curve



Different Temperature Self Discharge Curve

