

Minicube LITHIUM ION BATTERY

■ STM12V100Ah



Features and Benefits

- High compatibility
Supporting the connection with lead acid batteries.
- Built-in smart BMS
Providing balanced voltage among cells and protections of short circuit, over charging/discharging, over temperature.
- Safe and reliable LFP battery cells
Ensuring a life span of more than 3000cycles@100%DoD.
- Real time monitoring
Monitoring battery operation status on mobile devices with built in bluetooth module.
- Capacity expansion
Parallel or series connection for larger capacity or higher voltage.

Electrical

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Rated Energy	1280Wh
Recommended Charge Voltage	14.4V - 14.6V
Discharge Cut-off Voltage	10.8V
Standard Charge Current	50A
Max.Charge Current	100A
Continuous Discharge Current	100A
Peak Discharge Current@5S	300A
Max.Batteries in Parallel & Series	4P4S
Maximum Time Between Charges	3 months

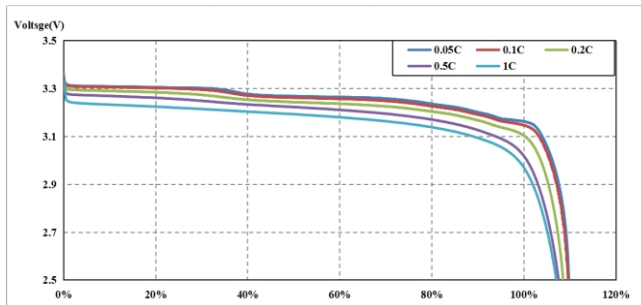
Mechanical

Dimension(L*W*H)	307*169*213mm
Weight	11.5Kg
Terminal	M8
Casing Material	ABS

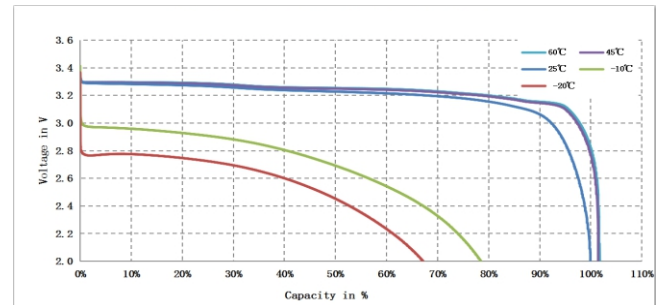
Environmental

Working Temperature Range	Charge: 0°C - 55°C Discharge: -20°C - 60°C
Humidity Range	<95%
Storage Temperature	15°C - 35°C
IP Level	IP65

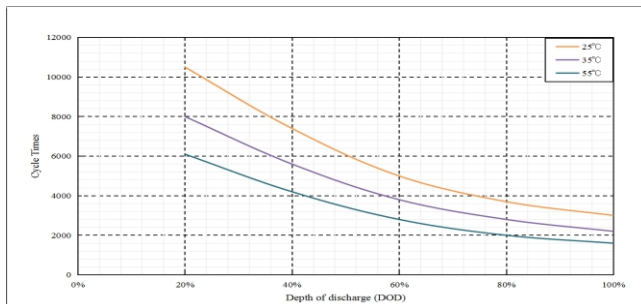
Discharge Curve @25°C under different current



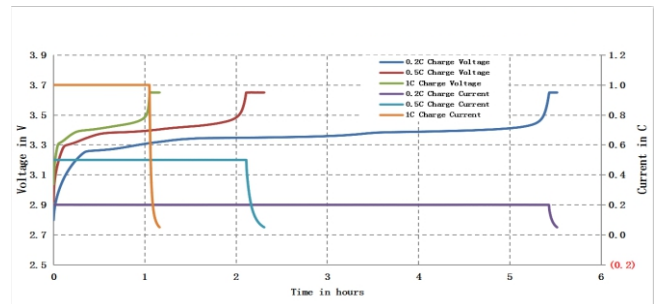
Discharge curves & 0.2C under different temperature



MiniCube serials cyclic life under different temperature



CC-CV Charge with 3.65Vpc constant voltage and different current rate



Application Scenario



RV



Solar light



Golfcart



Marine



Camera



Household