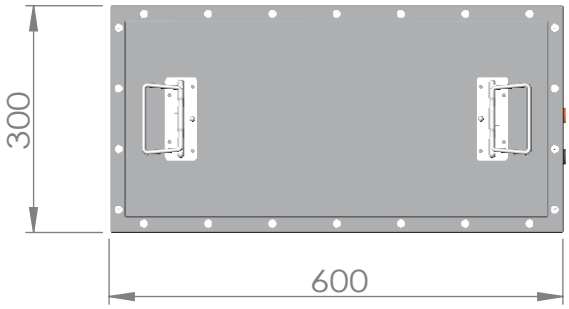
TMLiF-48100S1 v2.0

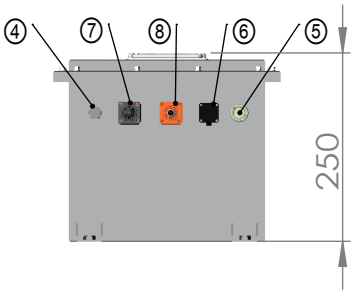
Rechargeable li-ion battery for golf cart

Lightweight, maintenance-free and powerful



Product size and component





Unit:mm



1.Battery case
2. Battery cap
3. Handles
4. Vent Valve
5. Switch
6. RS485 Port （for Meter or PC）
7. Negative (M8)
8.Positive(M8)

Nominal Characteristics

Nominal Voltage	51.2V
Nominal Capacity (@0.2C)	100Ah
Nominal Energy	5120Wh
Cell Chemistry	LiFePO4
Cell type	Prismatic
Cell Combination method	16S1P
Intemal Resisitance	≤300mΩ
Self Discharge Rate	The first month after charging ≤3.5%, other time≤2% per month
Cycle Life(@25°C,0.5C charge and 1C discharge,80%DOD)	≥4000 Cycles

Charging Specificaitions

Recommended Charging Voltage	40.0-58.4V
Max.Charging Current	100A

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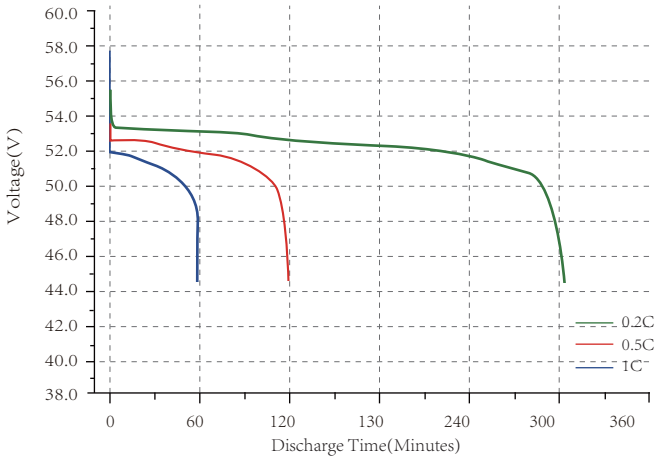
Discharging Specificaitions	
Discharging Cut-off Voltage	44.8V
Max.Discharging Continuous Current	100A
Max.Discharging Pulse Current	300A, ⩽10S

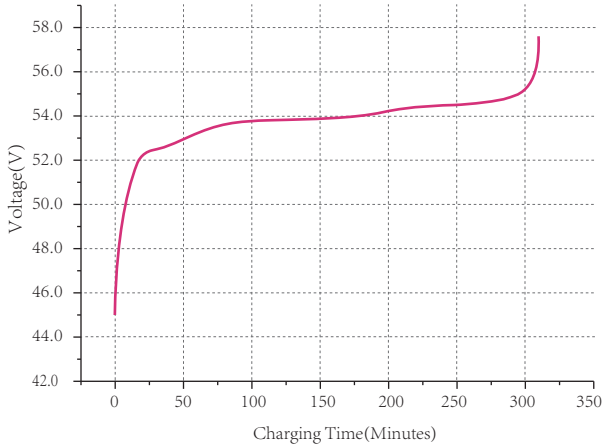
Mechanical Characteristics	
Weight	Approx.60Kg
Communication Interface	RS485

Operating Conditions	
Charge Temperature	0°C to 45°C(32°F to 113°F)
Discharge Temperature	-20°C to 60°C(-4°F to 140°F)
Storage Temperature	0°C to 45°C(32°F to 113°F)
Safety Standard	UN38.3
Water Dust Resistance	IP67

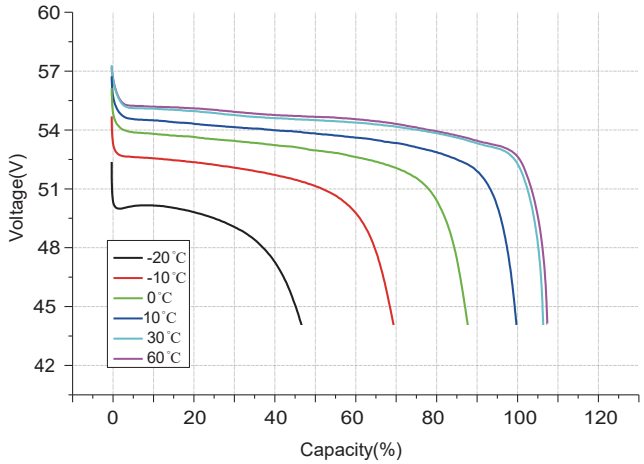
Discharging curve at different rate @25°C



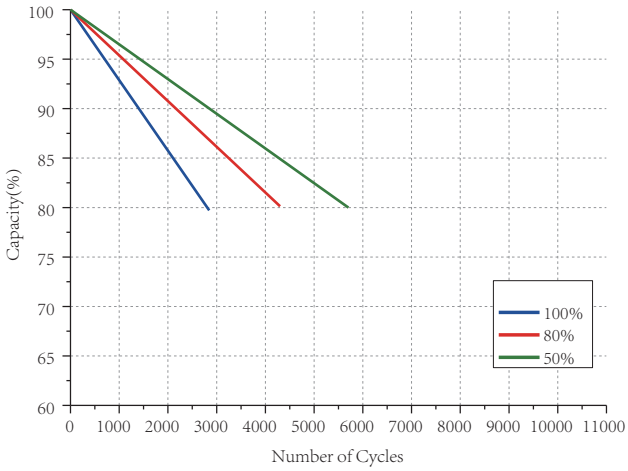
Charging Characteristic @25°C



Capacity under different Temp.



Cycle Life under different DOD@0.5CC/1CD,25°C



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