1. General Information

1.1 Scope

This specification describes the technical requirements of Cylindrical Lithium Iron Phosphate Cell supplied by T&W Energy Group Ltd.. If any other technical information is needed, please contact T&W Energy Group Ltd..

1.2 Product Classification

Cylindrical Rechargeable Lithium-ion Cell

1.3 Model Name

$LiFePO_4$-32650- 5.5 Ah

1.4 Benefits

- Sturdy and pressure resistant steel envelope
- High capacity
- Excellent cycle life
- Excellent high and low temperature performance
- Steady output voltage
- Low self-discharge
- Double safety protection
- With outstanding high level of vibrations and shocks

1.5 Main Application

- EV/PHEV
- UPS/Telecom
- Storage energy
- Starting power supply

1.6 Battery Assembly

Individual cells should be integrated in specific battery pack according to customers' demands. The battery pack together with electronic system provides performance, thermal and safety management.

2. Nominal Specification

Item		Condition/ Notes	Specification	Remarks
2.1 Norminal Capacity		1 C discharge capacity	5.5 Ah	
2.2 AC Impedance		At AC 1000 Hz	6.5 mΩ	
2.3 Nominal Voltage			3.2 V	
2.4 Cell Size		Cell Diameter	32.0±0.5 mm Max. 32.5 mm	
		Cell Height	70.0±0.5 mm Max. 70.5 mm	
2.5 Cell Weight		(Bare cell)	136±5 g	
2.6 End-of-charge Voltage		CC Mode	3.65 V	
2.7 End-of-charge Current		CV Mode	0.275 A	
2.8 Charging Method		Standard Charging	1 C at CC/CV	60 min
		Max Continuous Charging	6 C at CC/CV	10~15 min
2.9 End-of-discharge Voltage		CC Mode	2.0 V	
2.10 Max continuous Discharging Current			33 A	
2.11 Max Pulse	Discharging Current		55 A	5s
2.13 Cycle Life		1 C/ 70 % DOD	≥4000 cycles	
2.14 Operating Temperature Range	Charging Temperature		0~60 °C	
	Discharging Temperature		-20~ 60°C	
	Storage Temperature	1 year	-20~ 45°C	
2.15 Appearance		Without break, scratch, distortion, contamination, leakage and so on		