

# TY-D

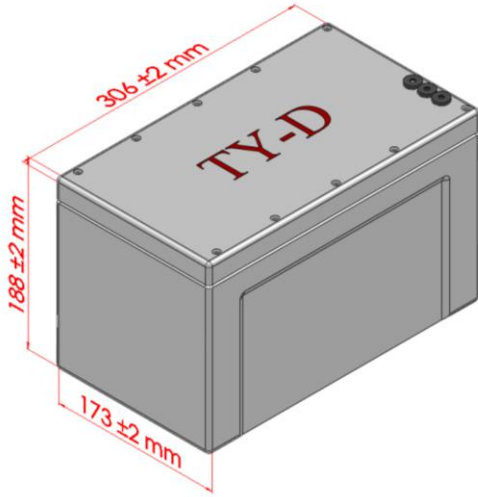
台湯動力股份有限公司

磷酸鋰鐵電池

TY DYNAMIC CO., LTD.

LiFePO<sub>4</sub> Battery

## TYD80-12



### 機械特性 Physical Characteristics

型號 Model	TYD80-12
長度 Length	306mm
寬度 Width	173mm
高度 Height	188mm
重量 Weight	Approx. 15 kg
電槽材質 Housing Material	ABS+PC
插頭型式 Connector Type :	
KST BMC2S-GREY、Unicable UT-SD259F2-7P、客戶指定	

### 電氣特性 Electrical Characteristics

公稱電壓 Nominal Voltage	12 V
公稱容量 Nominal Capacity	80 Ah
內阻 AC IR(1kHz)	<60 mΩ
瓦時 Watt-Hours(0.5C,25°C)	960 Wh
循環壽命 Cycle Life at DOD 100% (25 °C)	
1C Discharge/0.5C Charge(80% ↑)	1400 Cycles

### 保護板參數 BMS Parameter

過放電電壓 Over Discharge Voltage	2.6V/Cell
過充電電壓 Over Charge Voltage	3.9V/Cell

### 用途 Application:

電動機車 E-scooter、不斷電系統 UPS、電信 communication、儲能系統 Power Storage System。

備註 Remark：使用條件超出上述規格，請與我司聯絡 Please feel free to contact us if you have any specific requirements.

### 操作狀態 Operating Conditions

充電狀態 Charge Conditions :	
標準充電 Standard Charge	CC/CV
標準充電電壓 Standard Charge Voltage	14.4 V
標準充電電流 Standard Charge Current	5 A
放電狀態 Discharge Conditions :	
最大持續放電電流 Max. Discharge Current	60 A
最大瞬間放電電流 Max. Discharge Current(<2sec)	120 A
放電截止電壓 Discharge cut-off Voltage	10.4V
操作溫度範圍 Operating Temperature Range :	
充電溫度 Charge Temperature	-10 °C / 45 °C
放電溫度 Discharge Temperature	-10 °C / 45 °C
儲存溫度 Storage Temperature	-10 °C / 45 °C

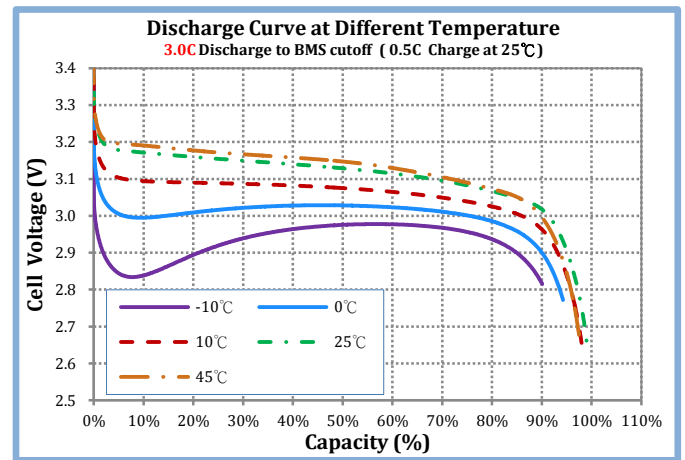
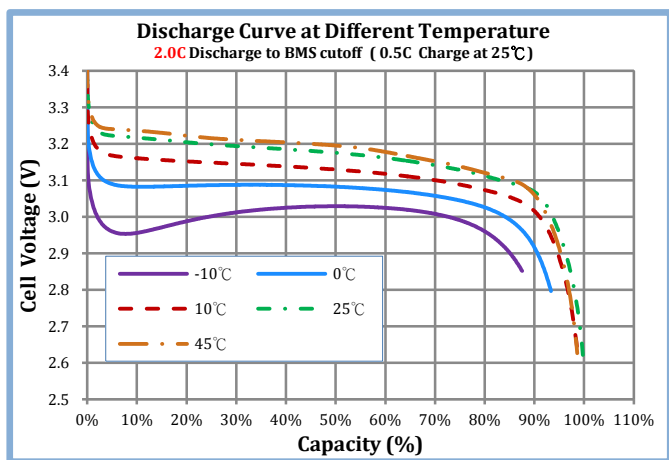
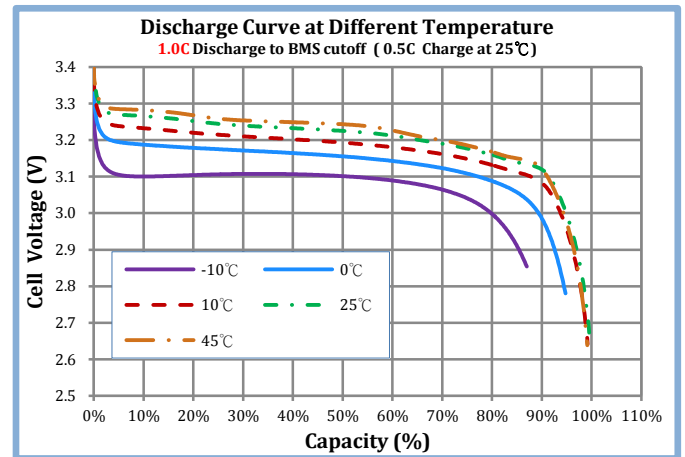
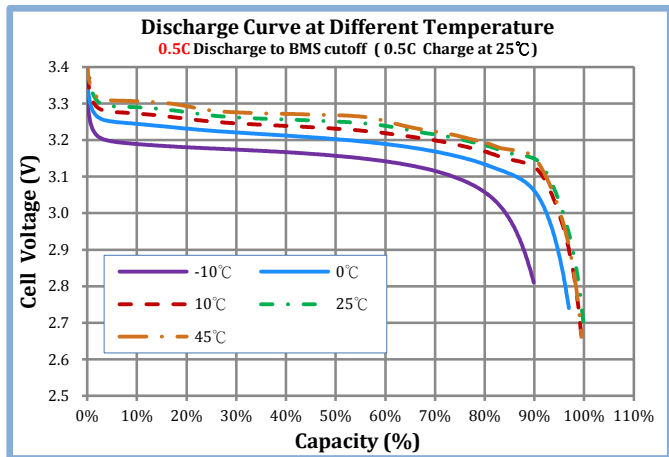
### 可符合認證 Certification

UN38.3

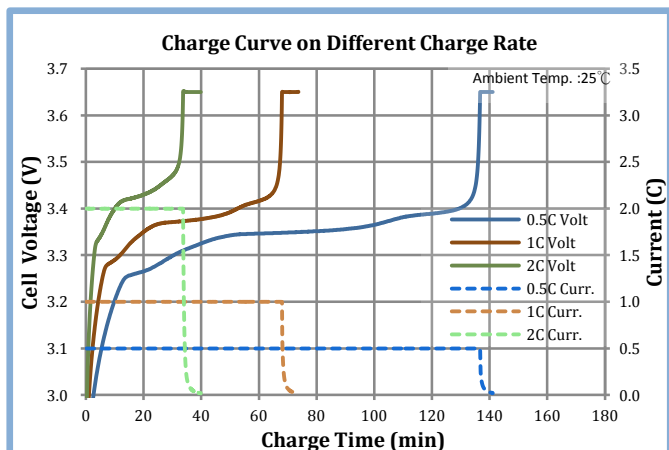
# TYD80-12 溫度特性 Discharge Temperature Characteristics – Amp-Hours(%)

Temp. \ Current	0.5C	1C	2C	3C
-10 °C	90%	86%	87%	90%
0 °C	96%	94%	93%	94%
10 °C	99%	99%	98%	98%
25 °C	100%	99%	99%	
45 °C	99%	99%	98%	97%

## 1. 放電特性 Rate Discharge Curve according to Ambient Temperature



## 2. 充電特性 Rate Charge Curve



## 3. 循環壽命 Cycle Life

