

TY-D

台湯動力股份有限公司

TY DYNAMIC CO., LTD.

磷酸鋰鐵電池

LiFePO₄ Battery

TYD 10-48



機械特性 Physical Characteristics

型號 Model	TYD10-48
長度 Length	225±2mm
寬度 Width	160±2mm
高度 Height	195±2mm
重量 Weight	Approx. 7.8 kg
電槽材質 Housing Material	PP
插頭型式 Connector Type :	TBD

電氣特性 Electrical Characteristics

公稱電壓 Nominal Voltage	51.2 V
公稱容量 Nominal Capacity	10 Ah
內阻 AC IR(1kHz)	<80 mΩ
瓦時 Watt-Hours(0.5C,25°C)	512 Wh
循環壽命 Cycle Life at DOD 100% (25 °C)	
0.5kW Discharge/0.5C Charge	1400 Cycles

操作狀態 Operating Conditions

充電狀態 Charge Conditions :	
標準充電 Standard Charge	CC/CV(Cut off 0.2A)
標準充電電壓 Standard Charge Voltage	58.4 V
標準充電電流 Standard Charge Current	5 A
最大充電電流 Max. Charge Current	10 A
放電狀態 Discharge Conditions :	
最大持續放電電流 Max. Discharge Current(continuous)	20 A
最大瞬間放電電流 Max. Discharge Current(Peak<5sec)	30 A
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

用途 Application:

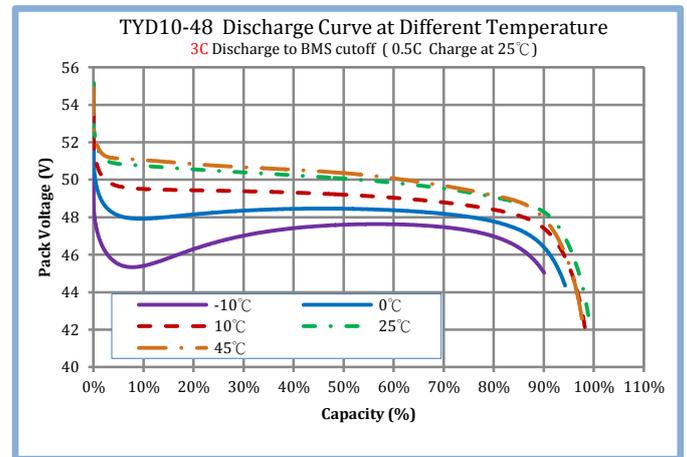
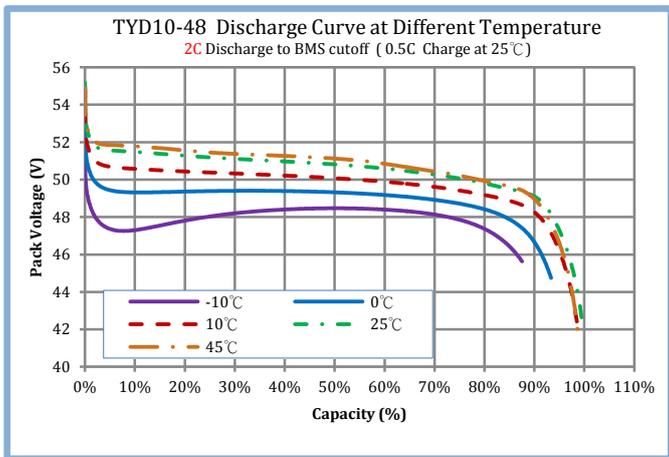
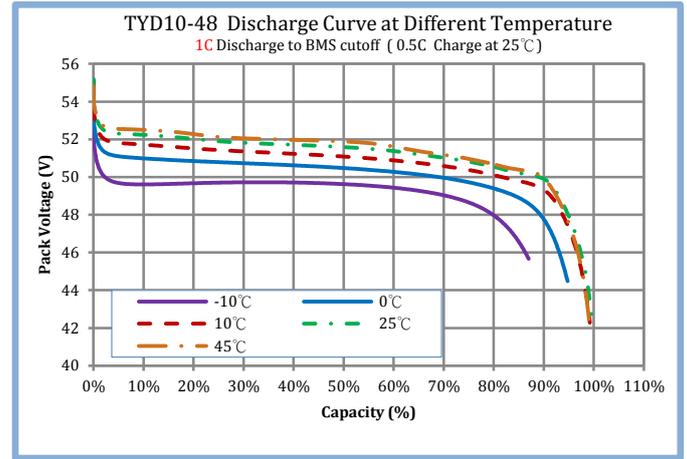
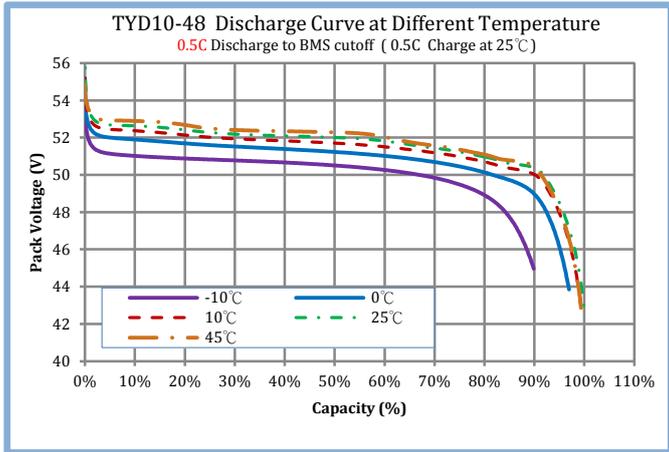
電動機車 E-scooter、不斷電系統 UPS、電信 communication、儲能系統 Power Storage System

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.

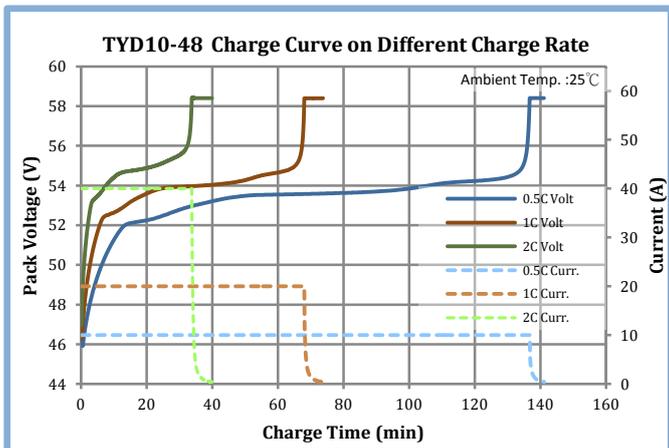
TYD10-48 溫度特性 Discharge Temperature Characteristics – Amp-Hours(%)

Temp. \ Current	0.5C (5 A)	1C (10 A)	2C (20 A)	3C (30 A)				
-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%
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

