

TY-D

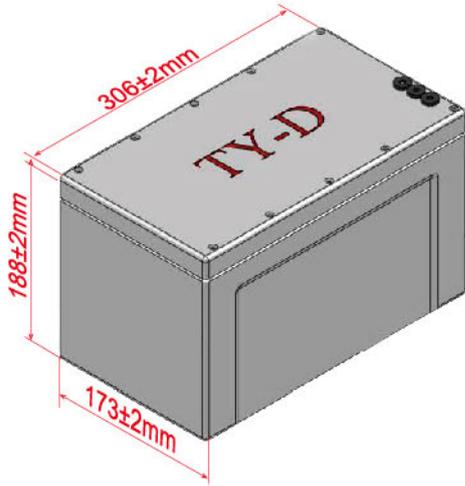
台湯動力股份有限公司

TY DYNAMIC CO., LTD.

磷酸鋰鐵電池

LiFePO₄ Battery

TYD 20-48



機械特性 Physical Characteristics

型號 Model	TYD20-48
長度 Length	306±2 mm
寬度 Width	173±2 mm
高度 Height	188±2 mm
重量 Weight	Approx. 15 kg
電槽材質 Housing Material	ABS+PC
電槽難燃等級 Flammability Rating	UL94V0
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	48 V
公稱容量 Nominal Capacity	20 Ah
內阻 AC IR(1kHz)	<40 mΩ
瓦時 Watt-Hours(0.5C, 25°C)	1100 Wh
循環壽命 Cycle Life at DOD 100% (25 °C)	
1kW Discharge/0.5C Charge	1400 Cycles

操作狀態 Operating Conditions

充電狀態 Charge Conditions:	
操作充電 Standard Charge	CC/CV(Cut off 0.4A)
標準充電電壓 Standard Charge Voltage	58.4V
標準充電電流 Standard Charge Current	10A
最大充電電流 Max.Charge Current	40A
放電狀態 Discharge Conditions:	
最大持續放電電流 Max.Discharge Current(continuous)	60A
最大瞬間放電電流 Max.Discharge Current(Peak<5sec)	100A
操作溫度範圍 Operating Temperature Rang:	
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

通過認證 Certification

TES-OB-01-01、UN38.3

用途 Application:

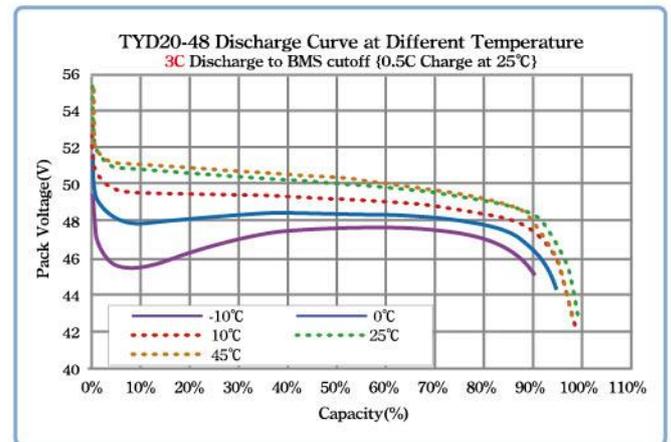
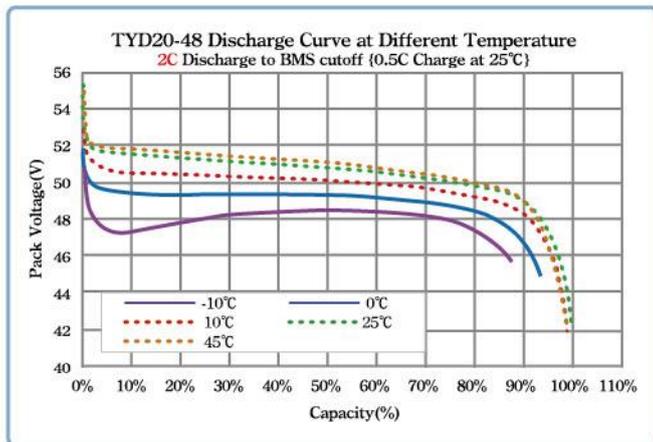
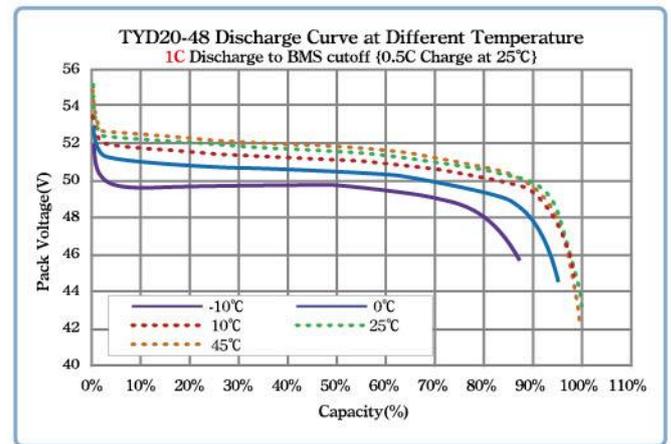
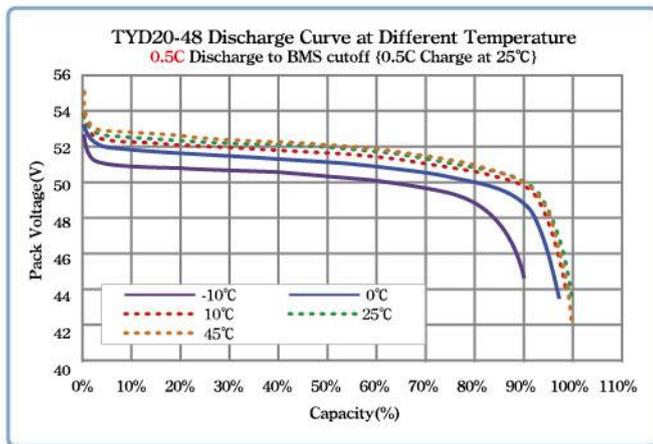
電動機車 E-scooter、不斷電系統 UPS、電信 communication、儲能系統 Power Storage System

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.

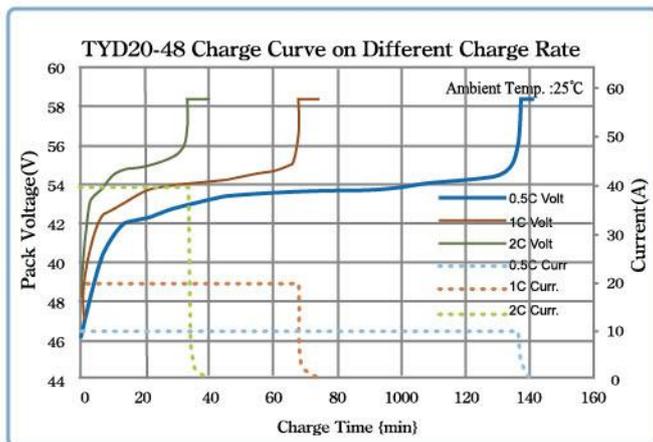
TYD20-48 溫度特性 Discharge Temperature Characteristics - Amp-Hours(%)

Temp. \ Current	0.5C(10A)	1C(20A)	2C(40A)	3C(60A)				
-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

