

MC-LFR48-100

MasterCell®

High Power

Li-ion Battery Pack

www.masterbattery.es

Li-ion Battery Pack

Model	MC-LFR48-100
Nominal voltage	51.2V
Rated capacity	100.0Ah

MASTER
BATTERY



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Content

1. Product Description 3

2. Characteristic 3

3. Testing performance of battery 3

4. Characteristic 4



1. Product Description

Safety in use. Long service life, long run-time application. Without any heavy metals and rare metals. Light weight and small volume. High voltage of single cell, 3.2V.

2. Characteristic

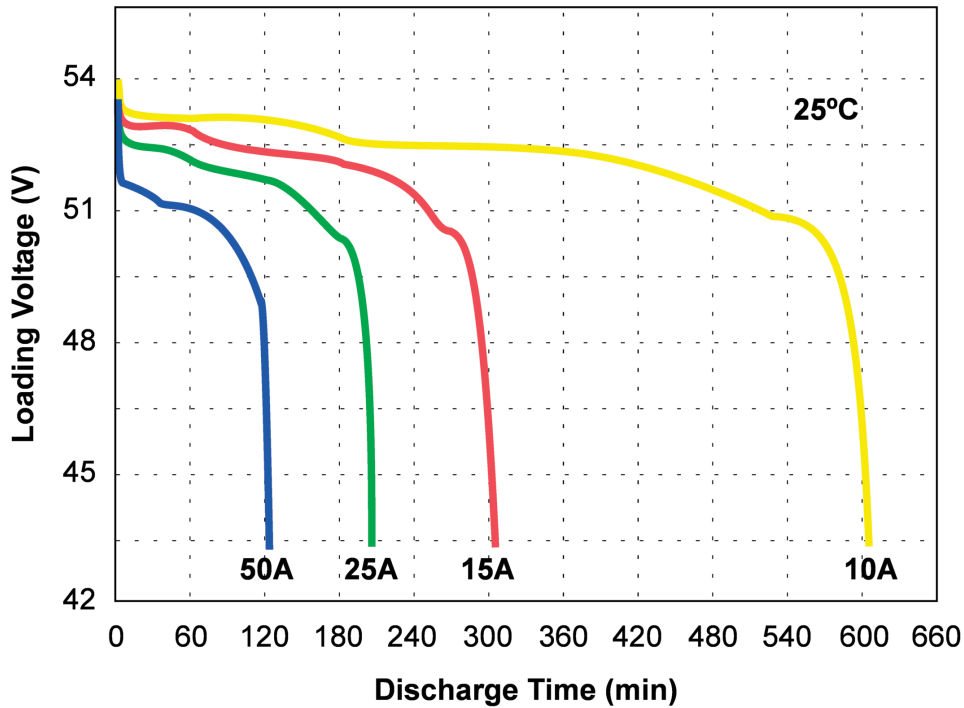
Item		MC-LFR48-100A	MC-LFR48-100B
Dimensions (W*D*H in mm)		442*388*220	442*388*264
Nominal Capacity		100.0Ah	100.0Ah
Nominal Voltage		51.2V	51.2V
Discharge Ending Voltage		43.2V	43.2V
Charging Limited Voltage		57.6V	57.6V
Display		No	No
Outer Package Material		White bake lacquer steel case	White bake lacquer steel case
Max. Charge Current		65.0A	60.0A
Max. Discharge Current		75.0A	50.0A
Operation Temperature	Charging	0 ~ 45°C	0 ~ 45°C
	Discharging	-20 ~ 60°C	-20 ~ 60°C
Storage Temperature		-20 ~ 60°C	-20 ~ 60°C
Weight		57.0Kg	32.0Kg x 2

3. Testing performance of battery

Item	Testing method	Requeriment
Performance of 0.2C discharging	After Standard Charging, discharge at constant current of 0.2 C ₁₀ within 1h till terminal voltage reaches 43.2V, record the discharging time.	Discharge time ≥ 300 min
Performance of 0.5C discharging	After Standard Charging, discharge at constant current of 0.5 C ₁₀ within 1h till terminal voltage reaches 43.2V, record the discharging time.	Discharge time ≥ 115 min
Performance of 0.1C discharging	After Standard Charging, discharge at constant current of 0.1 C ₁₀ within 1h till terminal voltage reaches 43.2V, record the discharging time.	Discharge time ≥ 600 min
High temperature performance (60°C)	After standard charging, put battery pack into high-temperature box of 60 ± 2°C to keep 4h, then discharge at 1.0 C ₁₀ till 43.2V at the same temperature, record the discharging time.	Discharge time ≥ 54 min
Low temperature performance (-10°C)	After standard charging, put battery pack into high-temperature box of -10 ± 2°C to keep 6h, then discharge at 0.2 C ₁₀ till 43.2V at the same temperature, record the discharging time.	Discharge time ≥ 180 min
Low temperature performance (-20°C)	After standard charging, put battery pack into high-temperature box of -20 ± 2°C to keep 6h, then discharge at 0.2 C ₁₀ till 43.2V at the same temperature, record the discharging time.	Discharge time ≥ 120 min



4. Characteristic



25°C Constant Power Discharge Table (Watts/h)

Discharge Time	1h	2h	3h	5h	10h
Power to end voltage 43.2 V	4805	2410	1615	971	486

MC-LFR48-100A



MC-LFR48-100B

