

MC-LFR48-150

MasterCell®

High Power

Li-ion Battery Pack

[www.masterbattery.es](http://www.masterbattery.es)

## Li-ion Battery Pack

Model	MC-LFR48-150
Nominal voltage	51.2V
Rated capacity	150.0Ah

**MASTER  
BATTERY**



Polígono industrial La Dehesa  
C/ Dehesa Vieja, nº2 Nave 16  
28052 Madrid (Spain)  
Tel. (+34) 918 021 649  
Fax. (+34) 917 750 542  
[info@masterbattery.es](mailto:info@masterbattery.es)



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

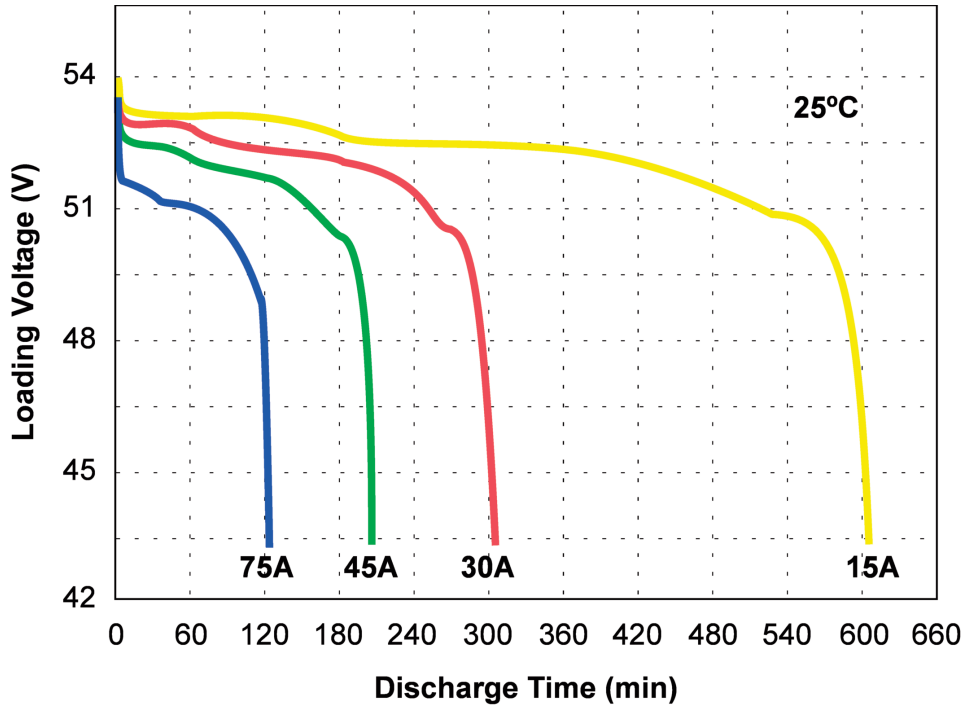
Item		MC-LFR48-150A
Dimensions (W*D*H in mm)		442*388*308
Nominal Capacity		150.0Ah
Nominal Voltage		51.2V
Discharge Ending Voltage		43.2V
Charging Limited Voltage		57.6V
Display		No
Outer Package Material		White bake lacquer steel case
Max. Charge Current		50.0A
Max. Discharge Current		60.0A
Operation Temperature	Charging	0 ~ 45°C
	Discharging	-20 ~ 60°C
Storage Temperature		-20 ~ 60°C
Weight		83Kg

### 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 <sub>10</sub> 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 <sub>10</sub> within 1h till terminal voltage reaches 43.2V, record the discharging time.	Discharge time ≥ 115 min
Performance of 1.0C discharging	After Standard Charging, discharge at constant current of 0.1 C <sub>10</sub> 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 <sub>10</sub> 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 <sub>10</sub> 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 <sub>10</sub> till 43.2V at the same temperature, record the discharging time.	Discharge time ≥ 120 min



4. Characteristic



MC-LFR48-150 Battery Backup Time					
Power Consumption (W)	187	375	750	1500	3000
Backup Time (Hours)	40	20	10	5	2.5

