

MC-LFR48-50

MasterCell®

High Power

Li-ion Battery Pack

www.masterbattery.es

Li-ion Battery Pack

Model	MC-LFR48-50
Nominal voltage	51.2V
Rated capacity	50.0Ah

**MASTER
BATTERY**



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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.

2. Characteristic

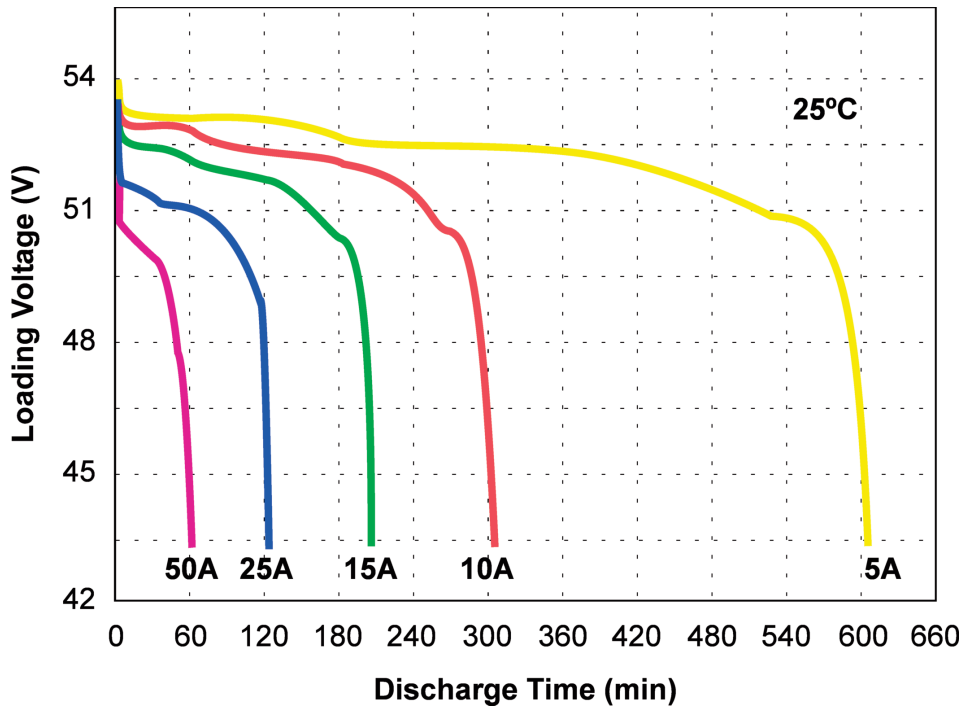
Item	MC-LFR48-50A	MC-LFR48-50B	MC-LFR48-50C
Dimensions (W*D*H in mm)	442*388*132	442*388*132	442*388*132
Nominal Capacity	50.0Ah	50.0Ah	50.0Ah
Nominal Voltage	51.2V	51.2V	51.2V
Discharge Ending Voltage	43.2V	43.2V	43.2V
Charging Limited Voltage	57.6V	57.6V	57.6V
Display	No	Yes	Yes
Outer Package Material	White bake lacquer steel case	White bake lacquer steel case	White bake lacquer steel case
Max. Charge Current	35.0A	10.0A	50.0A
Max. Discharge Current	50.0A	50.0A	50.0A
Operation Temperature			
Charging	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C
Discharging	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C
Storage Temperature	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C
Weight	31.5Kg	32.0Kg	31.5Kg

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 1.0C discharging	After Standard Charging, discharge at constant current of 1.0 C ₁₀ within 1h till terminal voltage reaches 43.2V, record the discharging time.	Discharge time ≥ 55 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	2410	1215	821	501	260

