

## ABOUT US

**Master Battery** is a Spanish company dedicated to developing, manufacturing and selling energy solutions around the world under the international quality standards implemented in the company. We collaborate actively with our customers, providing solutions in many sectors such as Defense, Security, Industry, Telecommunications, Renewable, Marine and Fisheries among others.

## Our Culture:

- Vision: constant effort to be a leader in energy solutions.
- Mission: To develop and deliver quality products and solutions at competitive prices, with efficient management and excellent customer service.

We believe in our products and we will be proud contributing to your success.



**MASTER  
BATTERY**

Energía autónoma en los cinco continentes



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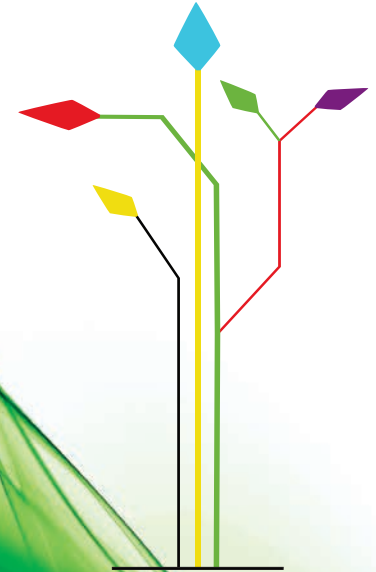


**MasterCell®**

High Power

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

# Li-ion Battery Pack Telecom Series



**MASTER  
BATTERY**

Energía autónoma en los cinco continentes



## MC-LFR48-50

MC-LFR48-50A



MC-LFR48-50B



MC-LFR48-50C



## MC-LFR48-100

MC-LFR48-100A



MC-LFR48-100B



## 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.

## MC-LFR48-150

MC-LFR48-150A



# MasterCell®

High Power

## MC-LFR48-200/300

MC-LFR48-300A



MC-LFR48-200A



ARTICULO	MC-LFR48-50A	MC-LFR48-50B	MC-LFR48-50C	MC-LFR48-100A	MC-LFR48-100B	MC-LFR48-150A	MC-LFR48-200A	MC-LFR48-300A
Dimensions (W*D*H in mm)	442*388*132	442*388*132	442*388*132	442*388*220	442*388*264	442*388*308	600*600*1050	600*600*1250
Nominal Capacity	50.0Ah	50.0Ah	50.0Ah	100.0Ah	100.0Ah	150.0Ah	200.0Ah	300.0Ah
Nominal Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Discharge Ending Voltage	43.2V	43.2V	43.2V	43.2V	43.2V	43.2V	43.2V	43.2V
Charging Limited Voltage	57.6V	57.6V	57.6V	57.6V 5	7.6V	57.6V	57.6V	57.6V
Display	No	Yes	Yes	No	No	No	No	No
Outer Package	Material White bake							
Max. Charge Current	35.0A	10.0A	50.0A	65.0A	60.0A	50.0A	40.0A	200.0A
Max. Discharge Current	50.0A	50.0A	50.0A	75.0A	50.0A	60.0A	100.0A	200.0A
Operation Charging	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C
Temperature Discharging	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C
Storage Temperature	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C
Weight	31.5Kg	32.0Kg	31.5Kg	57.0Kg	32.0Kg x 2	83Kg	178Kg	240Kg

Item	Performance After of 0.2C discharging	Performance After of 0.5C discharging	Performance of 1.0 C10 Discharge	High temperature performance (60°C)	Low temperature performance (-10°C)	Low temperature performance (-20°C)
Testing method	Standard Charging, discharge at constant current of 0.2 C10 within 1h till terminal voltage reaches 43.2V, record the discharging time.	Standard Charging, discharge at constant current of 0.5 C10 within 1h till terminal voltage reaches 43.2V, record the discharging time.	After Standard Charging, discharge at constant current time of 0.1 C10 1within 1h till terminal voltage reaches 43.2V, record the discharging time.	After standard charging, put battery pack into high-temperature box of 60 ± 2°C to keep 4h, then discharge at 1.0 C10 till 43.2V at the same temperature, record the discharging time.	After standard charging, put battery pack into high-temperature box of -10 ± 2°C to keep 6h, then discharge at 0.2 C10 till 43.2V at the same temperature, record the discharging time.	After standard charging, put battery pack into high-temperature box of -20 ± 2°C to keep 6h, then discharge at 0.2 C10 till 43.2V at the same temperature, record the discharging time.
Requeriment	Discharge time 300 min	Discharge time ≥ 115 min	Discharge time ≥ 600 min	Discharge time ≥ 54 min	Discharge time ≥ 180 min	Discharge time ≥ 120 min