

MC-LFR48-300

MasterCell®

High Power

Li-ion Battery Pack

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

## Li-ion Battery Pack

Model	MC-LFR48-300
Nominal voltage	51.2V
Rated capacity	300.0Ah

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. High voltage of single cell, 3.2V.

## 2. Characteristic

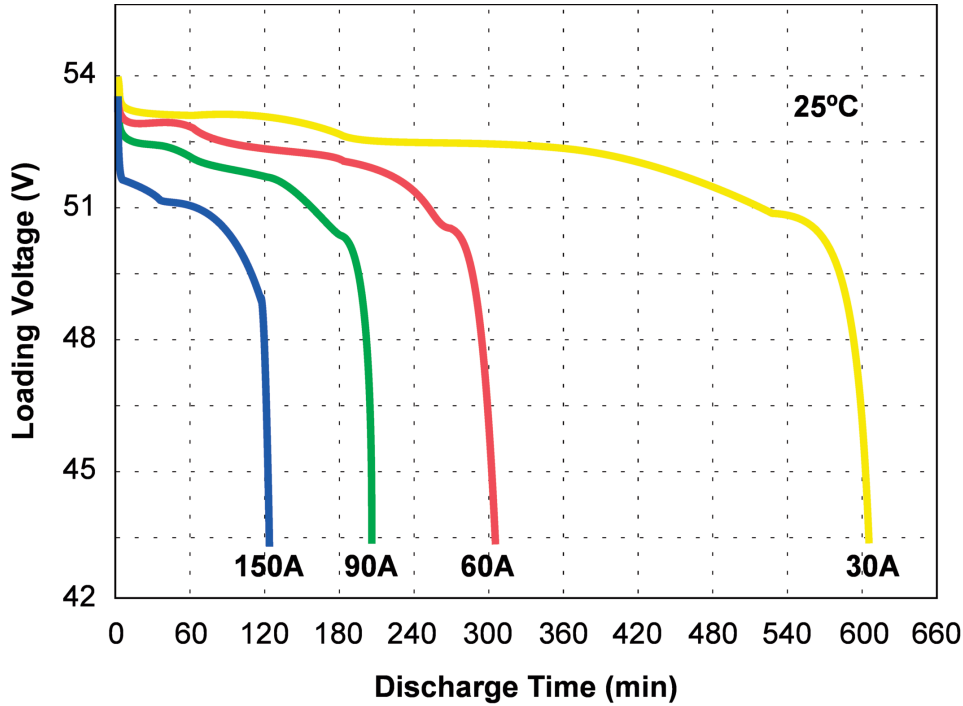
Item		MC-LFR48-300A
Dimensions (W*D*H in mm)		600*600*1250
Nominal Capacity		300.0Ah
Nominal Voltage		51.2V
Discharge Ending Voltage		43.2V
Charging Limited Voltage		57.6V
Display		No
Outer Package Material		White bake lacquer steel case
Max. Charge Current		200.0A
Max. Discharge Current		200.0A
Operation Temperature	Charging	0 ~ 45°C
	Discharging	-20 ~ 60°C
Storage Temperature		-20 ~ 60°C
Weight		240Kg

## 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-LFR48-300 Battery Backup Time					
Power Consumption (W)	360	720	1440	2880	5760
Backup Time (Hours)	40	20	10	5	2.5

