

# ASTERION BATTERY LFP 1208

Asterion Battery LFP 1208 on lithium iron phosphate cells is designed for industrial, residential, commercial and private applications. This lithium products, due to its maintenance-free features and improved design characteristics, is ideal for working in a wide variety of fields: security and alarm systems, fire safety systems, CCTV.



## General specifications

Cell type	LiFePO <sub>4</sub>
Battery control system	Built-in BMS
Case material	ABS plastic
Dimensions (L x W x H)	151 x 65 x 100 mm
Weight	0,93 kg
Cycle life (0.2C, DoD 100 %, 25 °C)	≥6,000 cycles
Terminal type	T2
Discharge temperature	-20 °C to 60 °C
Charge temperature	0 °C to 45 °C
Storage temperature	-10 °C to 30 °C
Relative humidity	60±25 %

## Electrical specifications at 25 °C

Rated voltage	12.8 V
Rated capacity	8 Ah
Accumulated energy	102.4 Wh
Rated charge voltage	14.6 V
Voltage range	10.8–14.6 V
Charge voltage in standby mode	13.6–13.8 V
Charge voltage in cycle mode	14.1–14.4 V
Rated charge current	1.6 A
Max charge current	4 A
Max discharge current	24 A
Internal resistance	<75 mΩ

## Constant current discharge at 25 °C

Discharge time	1 h	2 h	3 h	4 h	5 h	10 h	20 h
Cut-off voltage (10.8 V)	8 A	4 A	2.6 A	2 A	1.6 A	0.8 A	0.4 A

## Constant power discharge at 25 °C

Discharge time	1 h	2 h	3 h	4 h	5 h	10 h	20 h
Cut-off voltage (10.8 V)	102.4 W	51.2 W	33.2 W	25.6 W	20.4 W	10.2 W	5.1 W

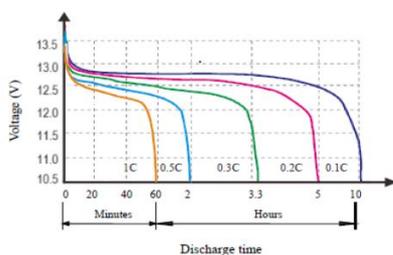
## Built-in protection

- Overvoltage protection
- Undervoltage protection
- Discharge/charge overcurrent protection
- Overtemperature protection

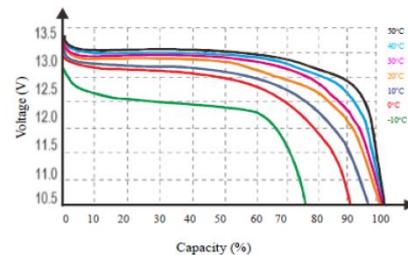
## Application

- Application 4S1P (equalize before installing)
- Application 1S4P (Increase capacity without increasing current, equalize before installing)

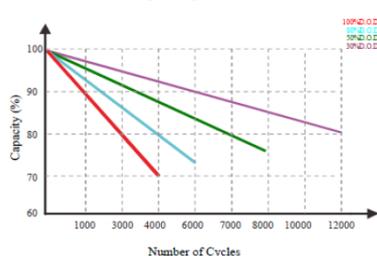
Discharge characteristics (25°C)



State of charge curve (0.5C, 25°C)



Different DOD discharge cycle life curve (0.2C, 25°C)



Different temperature discharge curve (0.5C)

