

ASTERION BATTERY LFP 1220

Asterion Battery LFP 1220 on lithium iron phosphate cells is designed for industrial, residential, commercial and private applications. This lithium products, due to its maintenancefree features and improved design characteristics, is ideal for working in a wide variety of fields: 12V solar and alternative energy storage, 12V UPS systems.



General specifications

Cell type	LiFePO ₄
Battery control system	Built-in BMS
Case material	ABS plastic
Dimensions (L x W x H)	182 × 77 × 165±2 mm
Weight	2.15±0.5 kg
Terminal type	LC1 (M5)
Discharge temperature	-10 °C to 50 °C
Charge temperature	0 °C to 45 °C
Storage temperature	-10 °C to 30 °C
Relative humidity	60±25 %

Constant current discharge at 25 °C

Discharge time	1 h	2 h	4 h	5 h	8 h	10 h	15 h	20 h
Cut-off voltage (10.8 V)	20 A	10 A	5 A	4 A	2.5 A	2.0 A	1.33 A	1.0 A

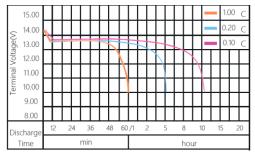
Constant power discharge at 25 °C

Discharge time	1 h	2 h	4 h	5 h	8 h	10 h	15 h	20 h
Cut-off voltage (10.8 V)	256 W	128 W	64 W	51.2 W	32.0 W	25.6 W	17.07 W	12.8 W

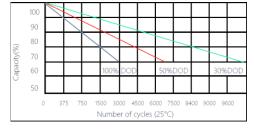
Built-in protection

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

Discharge characteristics (25°C)



Different DOD discharge cycle life curve (25°C)



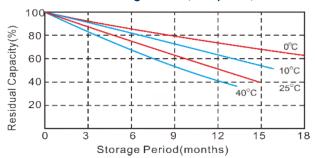
Electrical specifications at 25 °C

Rated voltage	12.8 V
Rated capacity	20 Ah
Accumulated energy	256 Wh
Rated charge voltage	14.6 V
Voltage range	9.2–14.6 V
Charge voltage in standby mode	13.6–13.8 V
Charge voltage in cycle mode	14.4–14.6 V
Max charge current	20 A
Max discharge current	20 A
Cycle life (0.2C, DoD 100 %, 25 °C)	≥3,000 cycles

Application

• Single only

State of charge curve (0.5C, 25°C)



Constant voltage charging characteristics

