

ASTERION BATTERY LFP 1250 BLUETOOTH

Asterion Battery LFP 1250 Bluetooth 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: 12V solar and alternative energy storage, 12V UPS systems.



General specifications

Cell type	LiFePO ₄
Battery control system	Built-in BMS
Bluetooth	Yes
Case material	ABS plastic
Dimensions (L x W x H)	228 × 138 × 215±2 mm
Weight	5.9±0.5 kg
Terminal type	LC5 (M8)
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 %

Electrical specifications at 25 °C

Rated voltage	12.8 V
Rated capacity	50 Ah
Accumulated energy	640 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	50 A
Max discharge current	50 A
Cycle life (0.2C, DoD 100 %, 25 °C)	≥3,000 cycles

Constant current discharge at 25 °C

Discharge time	1 h	1.67 h	3.33 h	4.17 h	6.67 h	8.33 h	12.5 h	16.67 h
Cut-off voltage (10.8 V)	50 A	30 A	15 A	12 A	7.5 A	6.0 A	4.0 A	3.0 A

Constant power discharge at 25 °C

Discharge time	1 h	1.67 h	3.33 h	4.17 h	6.67 h	8.33 h	12.5 h	16.67 h
Cut-off voltage (10.8 V)	640 W	384 W	192 W	153.6 W	96.0 W	76.8 W	51.2 W	38.4 W

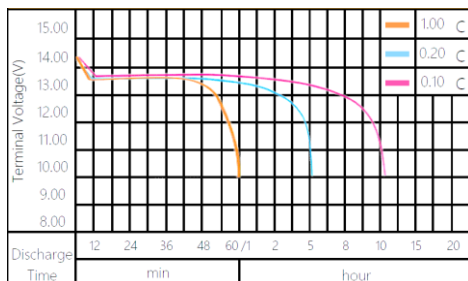
Built-in protection

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

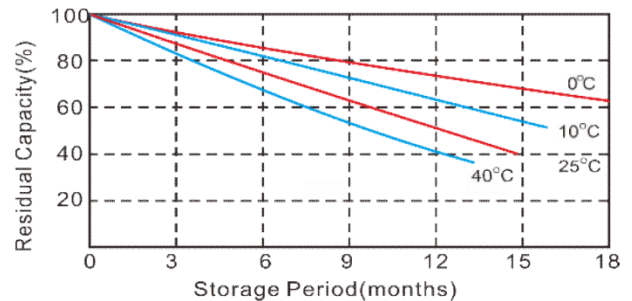
Application

- Single only

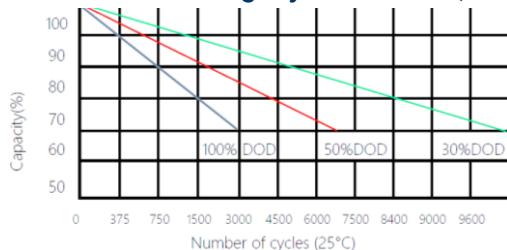
Discharge characteristics (25°C)



State of charge curve (0.5C, 25°C)



Different DOD discharge cycle life curve (25°C)



Constant voltage charging characteristics

