

## ASTERION BATTERY LFP 12100

Asterion Battery LFP 12100 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 <sub>4</sub>
Battery control system	Built-in BMS
Bluetooth	No
Case material	ABS plastic
Dimensions (L x W x H)	331× 173 × 220±2 mm
Weight	10.00±0.6 kg
Terminal type	LC4 (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	100 Ah
Accumulated energy	1280 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	100 A
Max discharge current	100 A
Cycle life (0.2C, DoD 100 %, 25 °C)	≥3,000 cycles

### 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)	100 A	50 A	25 A	20 A	12.5 A	10.0 A	6.67 A	5.0 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)	1280 W	640 W	320 W	256 W	160 W	128 W	85.33 W	64.0 W

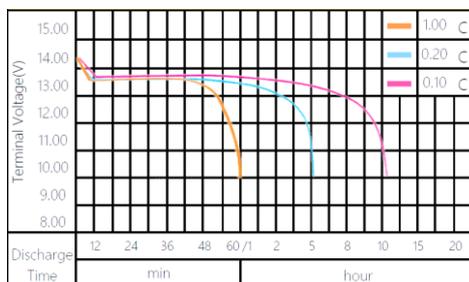
### Built-in protection

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

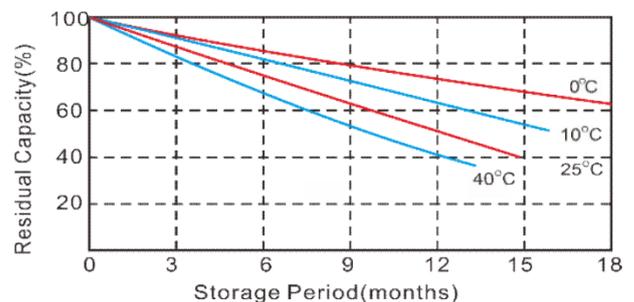
### Application

- Single only

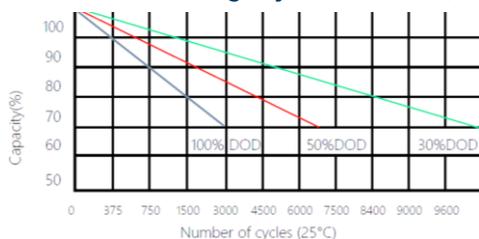
### Discharge characteristics (25°C)



### State of charge curve (0.5C, 25°C)



### Different DOD discharge cycle life curve (25°C)



### Constant voltage charging characteristics

