

12V 7Ah

Lithium Iron Phosphate (LiFePO4) Battery

# Product Features

Model:HXF-12-7-SA



**Safest LiFePo4**

cells for safe use no ﬁre no explosion

**Long Life Cycles**

>2000 cycles@0.2C,Charge/Discharge at 100%DOD

**Powerful Energy**

Quick charging, high quality and high discharge rate lithium battery cells providing more energy.

**Built-in intelligent BMS**

Over Charge **/**Discharge voltage and current protection, Short circuit protection ,Over temperature protection.

**Clean Energy**

HuaXiang Lithium Battery are the ultimate ,No toxic material ,No Pb.

Kg

2

**Light Weight**

about 40%~50%of the weight of SLA battery

**Replacement**

Replacement for SLA battery with compatible Housing

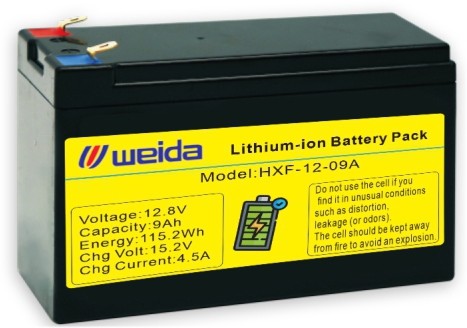
**Customized**

Battery Voltage,Capacity,Current,Size ect all can be customized to meet speciﬁc applications

# Product Description

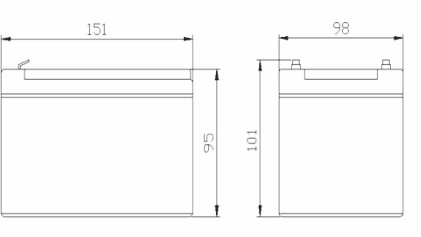
Model #: HW-12.8V-9Ah

|  |  |  |
| --- | --- | --- |
| Electrical Characteristics | Technology | Lithium Iron Phosphate |
| Nominal Voltage | 12.8V |
| Nominal Capacity | 7Ah± [5%@0.2C](mailto:5%25@0.2C) |
| Energy | 89,6Wh |
| Cycle Life | 100% Depth of Discharge ~2000 cycles |
| Internal Resistance | 90mΩ |
| Self Discharge | ＜3% per month @25℃ |
| Charge | Charge mode | CC&CV(0.2C Constant current & 14.6V  Constant voltage@0.02C) |
| Max. Charge Voltage | 14.6V |
| Standard Charge Current | 1.4A |
| Max.Charge Current | 3,5A |
| Discharge | Discharge Cut-o ﬀVoltage | 10V |
| Standard Discharge Current | 1.8A |
| Max.Continuous  Discharge Current | 7A |
| Pulse Current | 20A＜3S |
| Operating Condition | Storage Temperature | 0℃to45℃(32℉to113℉) |
| Humidity | 60±25% |
| Charge Temperature | 0℃ to 45℃(32℉to113℉) |
| DischargeTemperature | -20℃to 45℃(32℉to113℉) |
| Structure | Water Dust Resistance | IP55 |
| Teminal | F1 |
| Carrying | / |
| Case and Cover | ABS |
| Dimension（L\*W\*H) | 151X65X95mm |
| Weight | Approx 0,85Kg |

**Years limited**

**2**

## 



65

**Diﬀerent DOD Discharge Cycle Life Curve @0.5C, 25**℃

**Diﬀerent Rat**e Discharge Cu**rve @ 25**℃

110%



100%

**Remaining capacty(%)**

90%

80%

70%

60%

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100%DOD 80%DOD 50%DOD | | | | | | | | | | | | | |

0 1000 2000 3000 4000 5000 6000 7000

**Numenber of Cycles**

14.0

13.5

13.0

12.5

**Voltage(V)**

12.0

11.5

11.0

10.5

10.0

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 0.2C 0.5C 1C | | | | | | | |  |  |  |

0% 20% 40% 60% 80% 100%

**Capacity(%)**

Address: No.1 Huaxiang Road, Xingtai Development Zone, Changtai, Zhangzhou, Fujian, China, 363900.

E-mail: [hxpower@huaxiangbattery.com](mailto:hxpower@huaxiangbattery.com) [http://www.huaxiangbattery.com](http://www.huaxiangbattery.com/) Tel://+86-0596-8369885