

Lead-Carbon Battery

LLC-800



power the future



• Main Applications

- Renewable energy (wind & solar) storage system
- Peak shifting of electrical power system
- Frequency regulation and Load following service
- Smart-grid & micro-grid sites
- Off-grid & bad-grid sites

• Benefits

- Extra long life design, design life is 10-15 years
- Superior PSoC and deep cycling performance
- Excellent quick charge performance, reduce charging time by 30%
- High potential fuel savings when used with hybrid genset applications

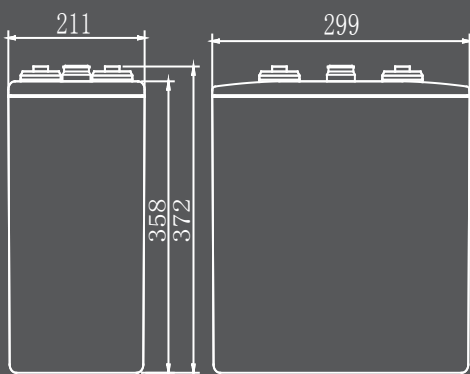
• Technical Features

- Comply with GB/T 22473、BS EN61427-1: 2013、IEC61427-2: 2015、UL、CE standards,etc
- Adopt lead carbon technology, reduce the cathode sulphation, ideal for PSoC cycle application and can deliver 4~5 times better cyclic life compared with normal VRLA
- Better charge acceptability and faster recharge performance
- Exquisite design for premium quality, high reliability and stability

• Technical Parameters

Normal Voltage	2V
Capacity	800 Ah @10hr to 1.80V per cell @ 25°C(77°F)
Weight	59.0 kg (130.1 lbs)
Dimensions	Length: 299 mm (11.77 in) Width: 211 mm (8.31 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.23mΩ (According to IEC 60896-21)
Short- circuit current	8900A (According to IEC 60896-21)
Self Discharge @ 25°C(77°F)	Less than 4 % after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C(-40°F ~ 122°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage: -20°C ~ 40°C(-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 25°C(59°F ~ 77°F)
Recommended Charging Current	120A
Charging Voltage @25°C(77°F)	2.30~2.35 V/cell
Terminal	M8
Capacity Affected by Temperature(C ₁₀)	105 % @ 40°C 90 % @ 0°C 40 % @ -20°C
Design life @25°C(77°F)	10-15 years

• Dimensions:



• Compliant standards:

- ★ GB/T 22473-2008
- ★ BS EN 61427-1: 2013
- ★ IEC 61427-2: 2015
- ★ IEC 60896-21/22

• Attain certificate:

- ☑ IEC 61427
- ☑ IEC 60896
- ☑ UL
- ☑ CE

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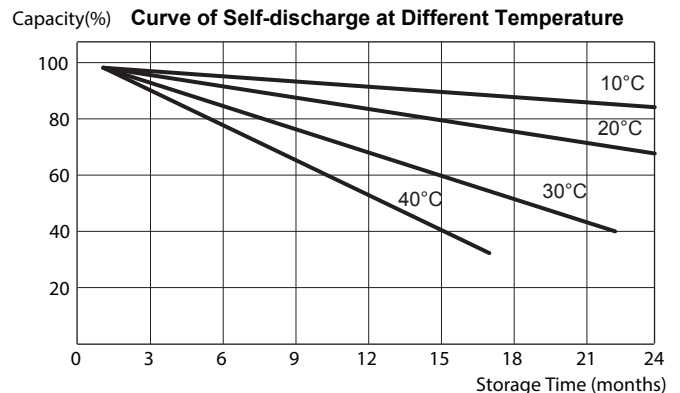
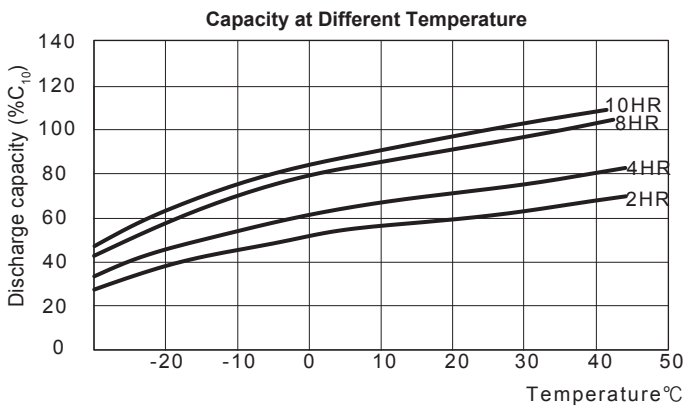
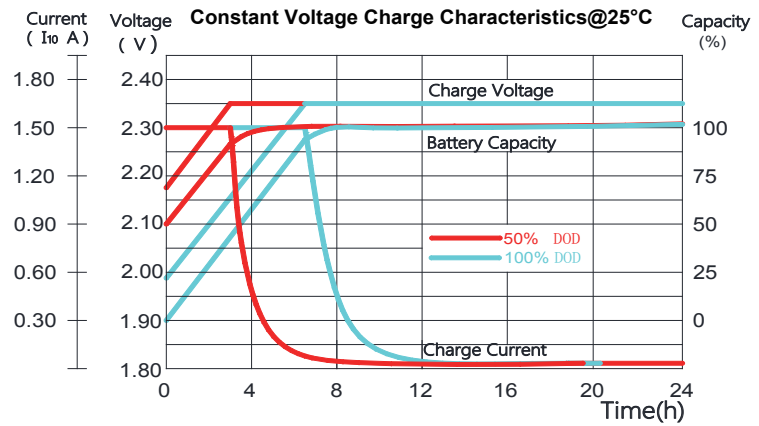
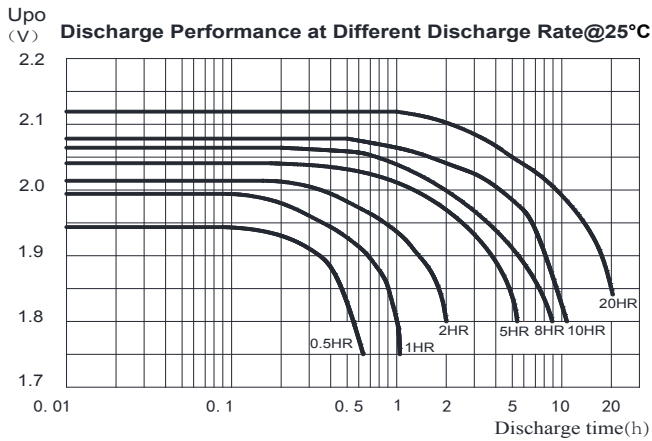
● **Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	100hr
1.75V	1060.8	673.9	450.8	208.5	145.1	102.4	85.6	46.0	10.33
1.80V	868.9	631.8	421.2	202.3	141.8	100.0	84.0	45.2	10.16
1.85V	764.4	563.2	380.6	191.3	137.0	96.0	80.8	43.6	9.82
1.90V	650.5	483.6	337.0	178.8	131.8	87.2	73.6	42.7	9.57

● **Constant Power Discharge Characteristics Unit: W (25°C, 77°F)**

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	100hr
1.75V	1686	1343	908	426	284	221	186	96.21	21.59
1.80V	1607	1295	888	412	276	216	182	94.47	21.22
1.85V	1463	1151	807	390	266	204	173	90.75	20.44
1.90V	1271	972	696	362	258	191	163	87.89	19.71

● **Performance curve :**



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