

Lead-Carbon Battery LLC-800



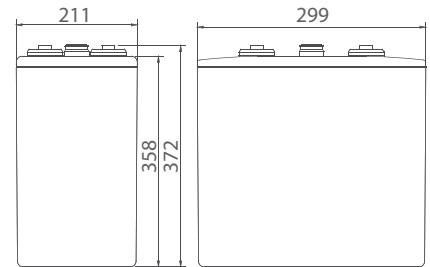
Main Applications

- ▣ 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 20 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

Dimensions



Technical Parameters

Nominal Voltage	2 V
Capacity	800 Ah @ 10hr to 1.80 V@ 25°C (77°F)
Weight	56.2 kg (123.9 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)	0.25 mΩ
Short- circuit Current	8800 A
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	120 A
Maximum Charging Current	240 A
Charging Voltage @25°C(77°F)	Float: 2.23 V/cell Equalize: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature(C ₁₀)	105% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design Life @25°C(77°F)	20 years

Certification

- IEC 61427
- IEC 60896
- UL
- CE

Technical Features

- ▣ Adopt lead- carbon capacitance 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

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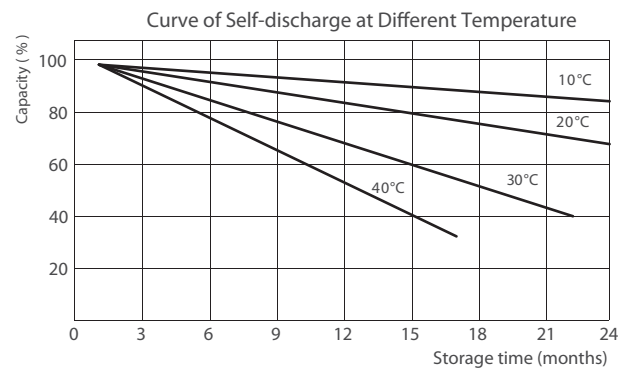
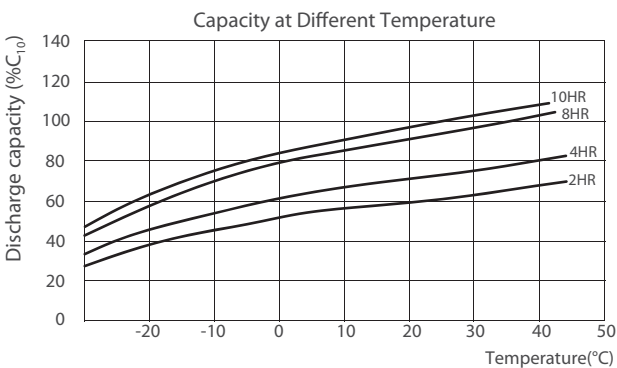
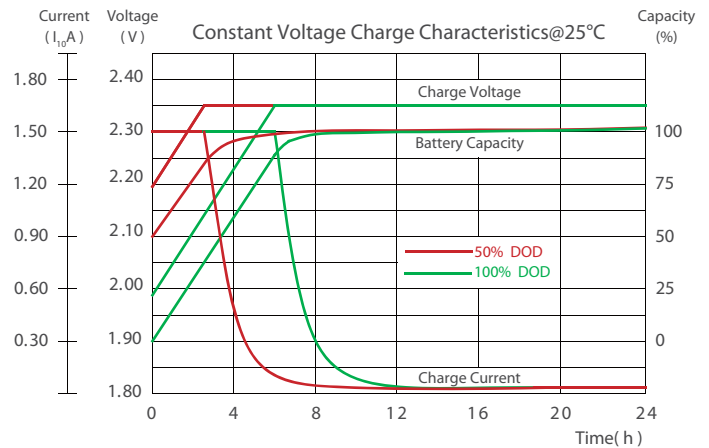
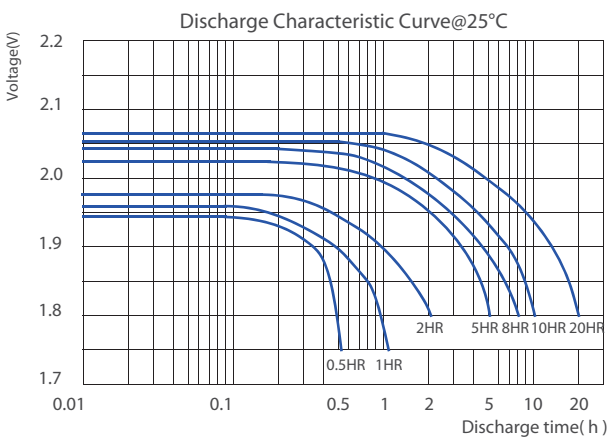
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	973	658	443	209	145	102	85	46.2	19.7
1.80V	859	616	416	202	142	101	83	45.4	19.4
1.85V	744	547	376	191	137	96	82	43.8	18.7
1.90V	595	467	332	165	115	82	67	38.9	18.2

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	1608	1302	828	416	278	190	168	90.4	41.2
1.80V	1540	1133	812	406	276	189	165	89.6	40.4
1.85V	1387	1055	793	378	266	186	158	85.0	38.9
1.90V	1146	847	688	330	230	163	134	77.1	36.4

Performance Curve



*Declaration:

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