

EXC

Extreme Cyclic Battery

EXC-800



Main Applications

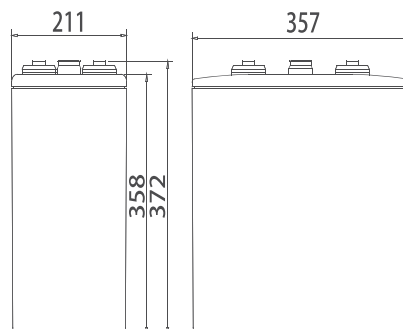
- ▣ Renewable energy (wind & solar) storage system
- ▣ Peak shifting of electrical power system
- ▣ Frequency regulation and load following service
- ▣ Smart-grid & micro-grid sites
- ▣ All extreme environment (off-grid & bad-grid sites)

Benefits

- ▣ Designing life is long which can help user reduce a lot of operating cost
- ▣ Ultra-high cycling performance in both PSoC and deep cycling
- ▣ Super fast charging performance, reducing charging time by 50%
- ▣ Less storage cost per kW-h



Dimensions



Technical Parameters

Nominal Voltage	2 V
Capacity	800 Ah @ 10hr to 1.80 V @ 25°C (77°F)
Weight	69 kg (152.2 lbs)
Dimensions	Length: 357 mm (14.06 in) Width: 211 mm (8.31 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.23 mΩ
Short- circuit Current	8800 A
Self Discharge @25°C(77°F)	Less than 7% after 90 days
Operating Temperature Range	Discharge: -20°C ~ 45°C(-4°F ~ 113°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage: -20°C ~ 45°C(-4°F ~ 113°F)
Recommended Operating Temperature	15°C ~ 30°C (59°F ~ 86°F)
Recommended Charging Current	160 A
Maximum Charging Current	280 A
Charging Voltage @25°C(77°F)	Equalize: 2.35 V/cell Temperature Compensation Factor of Battery: -3mV/(cell·°C)
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature(C ₁₀)	110% @ 40°C (104 °F) 90% @ 0°C (32 °F) 65% @ -20°C (-4 °F)

Certification

- ISO9001
(NO.03009Q10083R2M)
- ISO14001
(NO.03010E10145R0M)
- GB/T28001
(NO.03010S10141 R0M)

Technical Features

- ▣ Adopt lead- carbon capacitance technology, reducing sulphation of the cathode, ideal for PSoC cycle application and delivering 7~8 times cyclic life compared with normal VRLA
- ▣ Exceptional fast charging acceptability
- ▣ Distinctive design for premium quality, high reliability and stability

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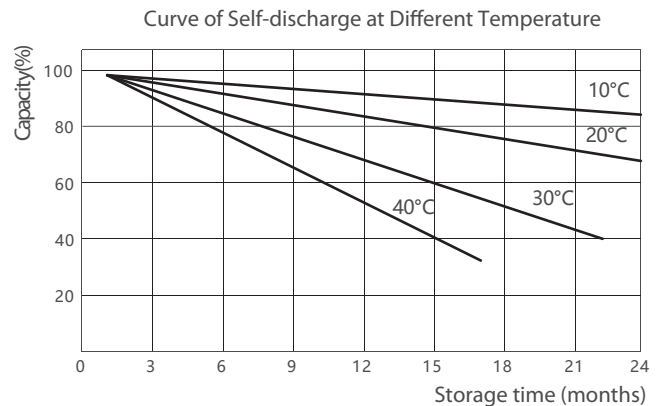
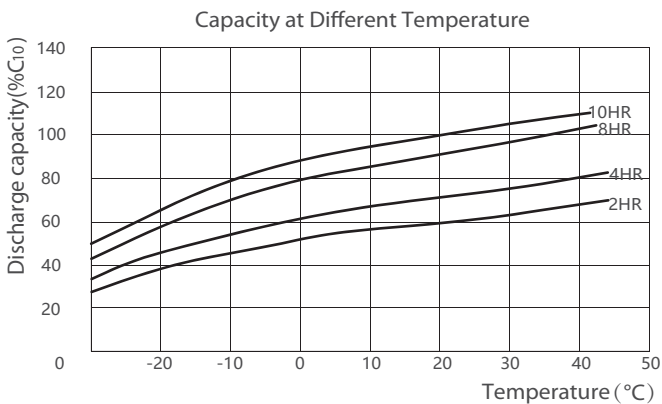
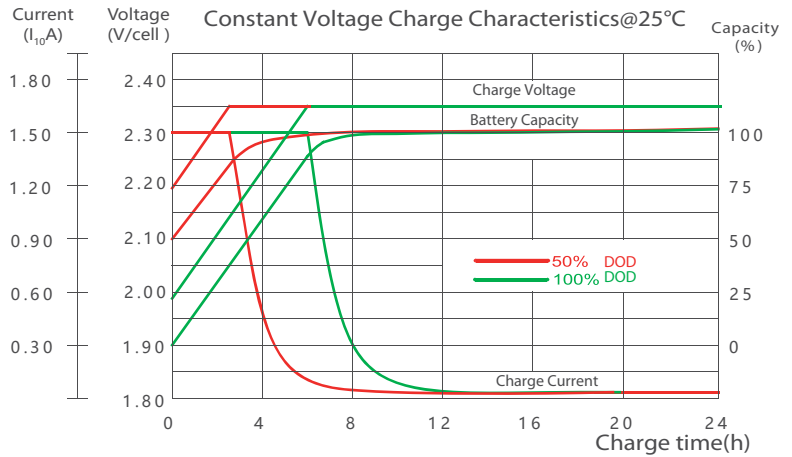
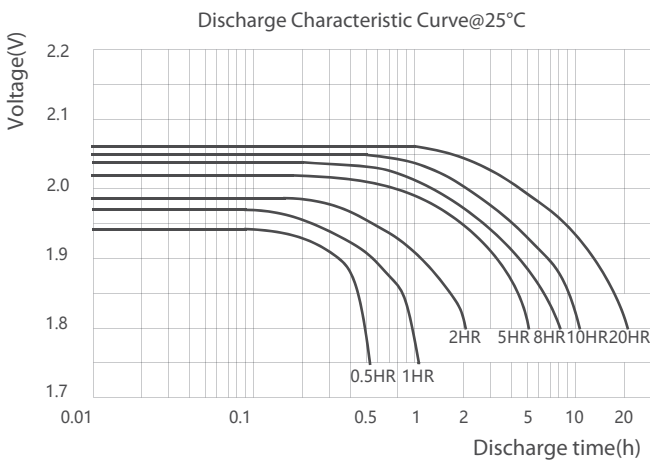
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	1128	797	528	224	156	110	93	50.1	21.0
1.80V	1058	754	480	216	152	107	90	49.3	20.3
1.85V	845	626	432	206	144	104	83	47.7	19.7
1.90V	682	544	349	174	134	96	78	43.5	19.2

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	2048	1478	946	458	296	211	179	96.8	43.2
1.80V	1888	1366	907	442	288	205	176	92.0	42.4
1.85V	1610	1238	829	420	284	198	170	88.2	41.0
1.90V	1334	1021	707	360	256	186	155	84.5	37.3

Performance Curve



*Declaration:

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