

EXC

Extreme Cyclic Battery

EXC-600



Main Applications

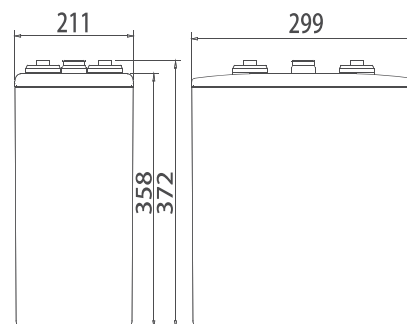
- ▣ Renewable energy (wind & solar) storage system
- ▣ Peak shifting of electrical power system
- ▣ Frequency regulation and load following service
- ▣ Smart-grid & micro-grid sites
- ▣ All extreme environment (off-grid & bad-grid sites)

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	600 Ah @ 10hr to 1.80 V@ 25 °C (77 °F)
Weight	56 kg (123.6 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)	0.24 mΩ
Short- circuit Current	8300 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	120 A
Maximum Charging Current	210 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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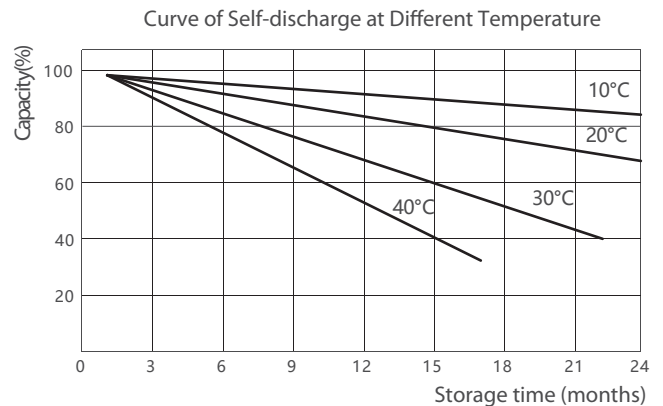
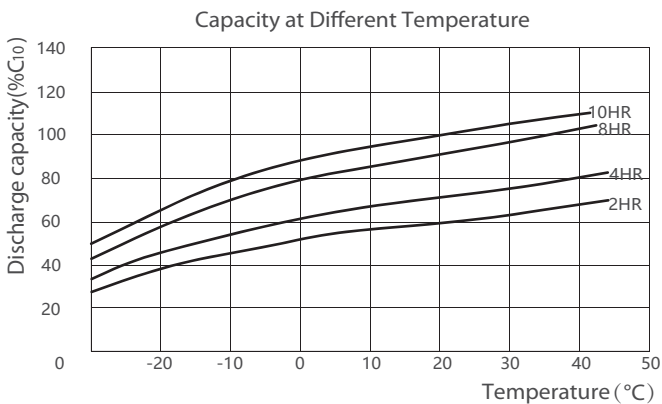
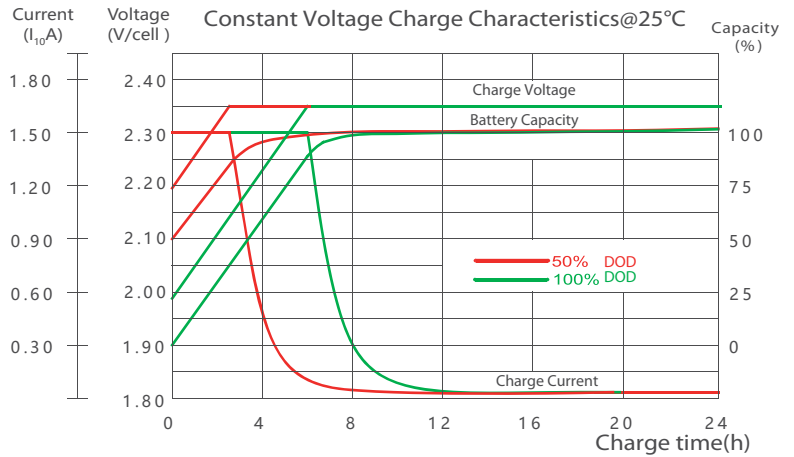
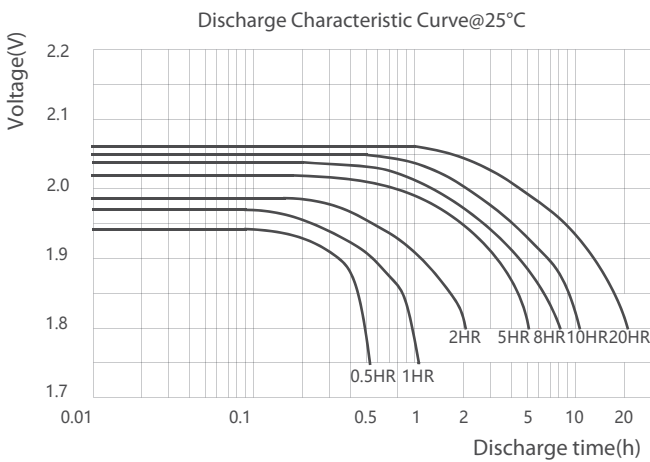
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	846	598	396	168	117	83	70	37.6	15.7
1.80V	793	565	360	162	114	80	67	37.0	15.2
1.85V	634	469	324	155	108	78	62	35.8	14.8
1.90V	511	408	262	131	101	72	59	32.6	14.4

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	1536	1109	709	344	222	158	134	72.6	32.4
1.80V	1416	1025	680	332	216	154	132	69.0	31.8
1.85V	1207	929	622	315	213	149	127	66.1	30.7
1.90V	1001	766	530	270	192	139	116	63.4	28.0

Performance Curve



*Declaration:

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