



## GLC500-2 2V 500Ah

### GLC SERIES-Lead Carbon Battery

#### 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

#### 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

#### 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

#### Technical Parameters

Nominal Voltage	2V
Capacity	500 Ah @ 10hr to 1.80 V@ 25°C (77°F)
Weight	31kg
Dimensions	Length: 240mm Width: 175 mm Height: 330mm Total height: 350 mm
Internal Resistance (full charged)	0.30mΩ
Short- circuit Current	7300 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	75 A
Maximum Charging Current	150 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 <sub>10</sub> )	105% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design Life @25°C(77°F)	20 years

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

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	608	422	277	133	92	64	53	28.9	12.3
1.80V	537	395	267	129	90	63	52	28.4	12.1
1.85V	465	351	241	122	86	61	51	27.4	11.7
1.90V	372	283	208	103	72	51	42	24.3	11.4

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

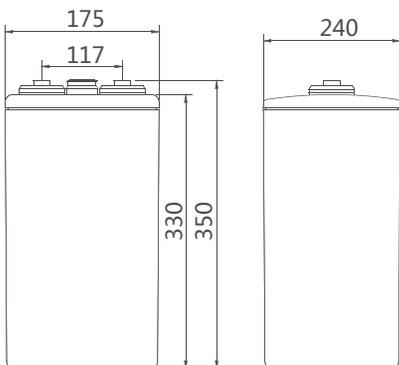
F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	20hr	48hr
1.75V	1031	814	517	260	174	119	105	56.5	25.7
1.80V	987	708	507	254	173	118	103	56	25.3
1.85V	889	659	496	242	169	116	99	53.1	24.3
1.90V	716	529	430	206	144	102	84	48.2	22.8

**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

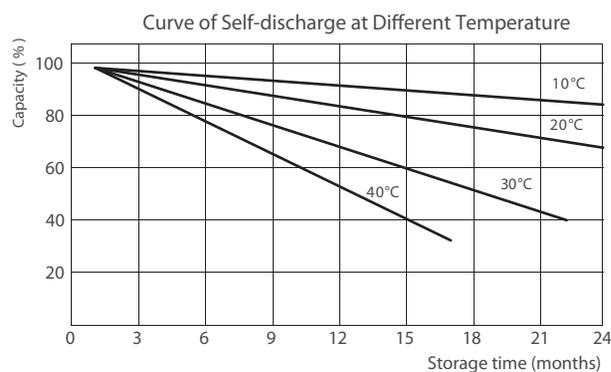
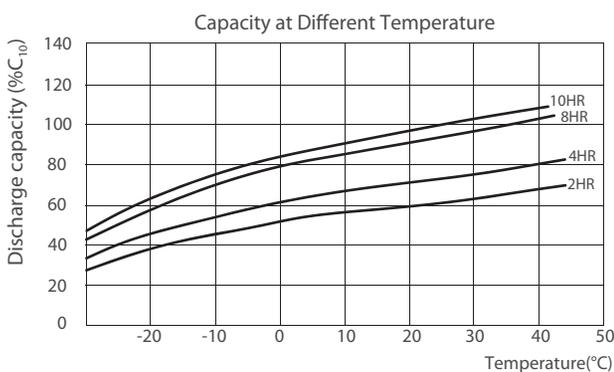
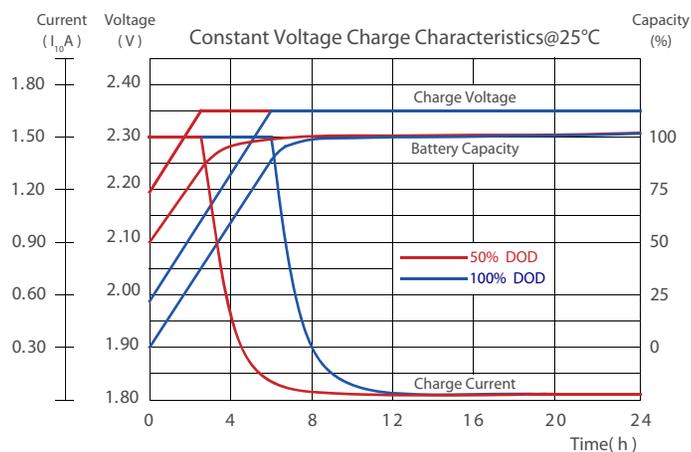
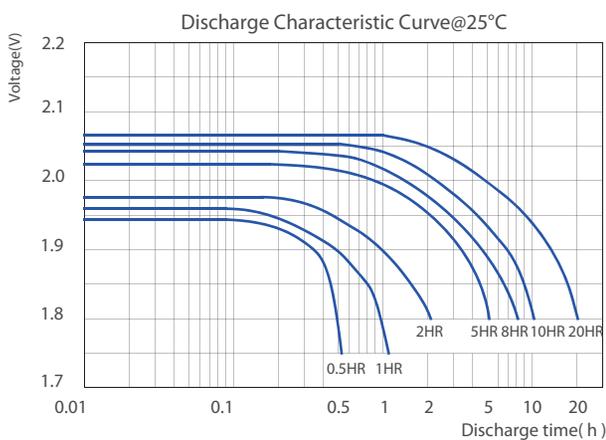


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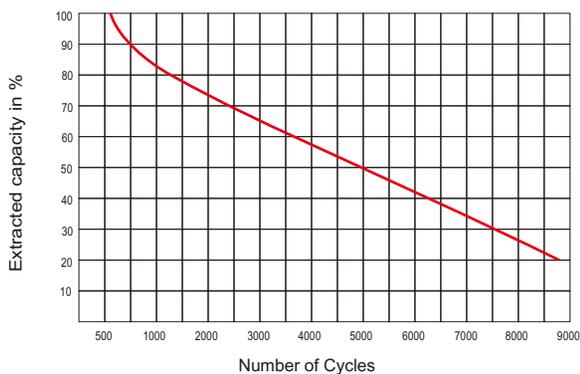
### Dimensions



### Performance Curve



### Cycle Life in Relation to Depth of Discharge



### JYC GLC BATTERIES

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