



450AH 6V AGM Deep Cycle Battery

DC-6V-450AH

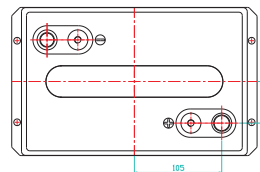
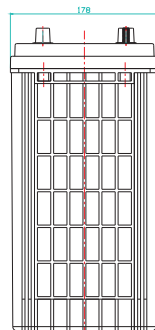
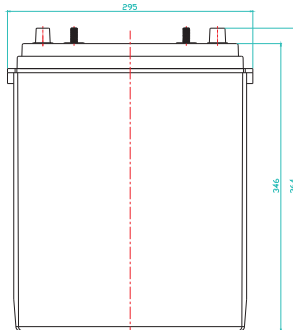


Cells Per Unit	3
Voltage Per Unit	6
Capacity	450Ah@C100 to 1.75V per cell @25°C
Weight	Approx. 48.0 Kg(Tolerance±1.5%)
Max. Discharge Current	3000A (5 sec)
Internal Resistance	Approx. 1.8 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	6.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	100 A
Equalization and Cycle Service	7.3 (7.4 for equalization) VDC/unit Average at 25°C
Self Discharge	Giant Power batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F22/ double terminals
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

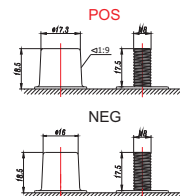


Dimensions

Unit: mm Dimension: 295(L)×178(W)×364(H)



Terminal F22



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	320.8	206.9	123.8	85.56	70.12	57.39	39.53	32.72	17.80
5.00V	315.5	205.9	122.9	85.23	69.79	57.05	39.21	32.41	17.48
5.10V	312.7	204.0	121.9	84.57	69.47	56.72	38.89	32.09	17.16
5.25V	304.9	202.1	121.0	84.24	68.82	56.04	38.57	31.78	16.83
5.40V	291.5	197.3	118.8	81.95	67.20	55.03	37.93	31.46	16.51
5.55V	273.1	187.4	113.5	78.34	63.95	52.67	36.32	30.52	15.54

Constant Power Discharge Characteristics: W(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	1829	1170.0	729.5	539.4	417.9	342.3	236.0	195.5	106.7
5.00V	1806	1167.2	725.6	539.6	417.4	341.5	234.9	194.3	104.9
5.10V	1793	1158.2	721.2	537.3	416.5	340.3	233.3	192.6	102.9
5.25V	1752	1147.8	716.0	535.2	412.6	336.2	231.4	190.7	101.0
5.40V	1679	1126.6	706.9	520.6	403.2	330.2	227.6	188.8	99.05
5.55V	1577	1078.4	680.6	498.1	383.7	316.0	217.9	183.1	93.23

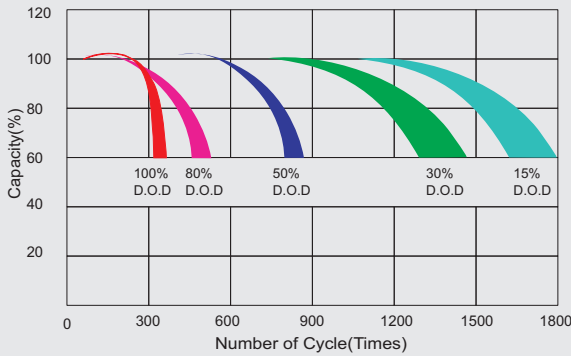
All mentioned values are average values(Tolerance±2%).

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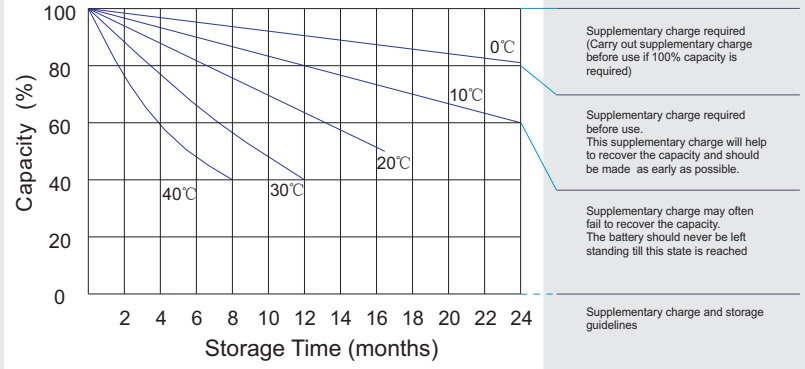
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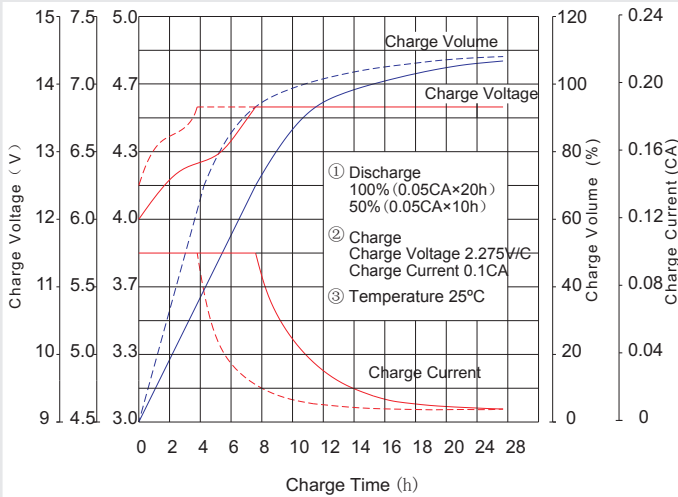
Life characteristics of cyclic use



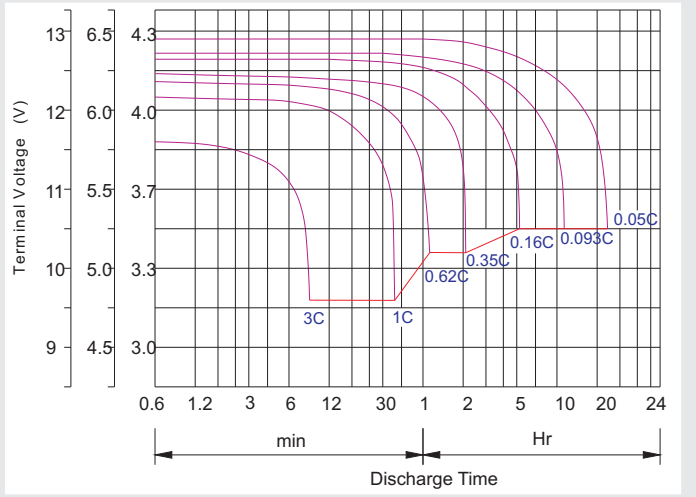
Storage characteristic



Charge characteristic curve for standby use



Discharge characteristic curve



Capacity Factors VS. Temperatures

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Cycle service
※ Avoid over discharging the battery, especially when battery is used in series connection.
※ Charged with recommended voltage, ensure battery is fully recharged. In general, recharge capacity should be 1.1-1.15 times discharge capacity.
※ Effect of temperature on cycle charge voltage: -4mV/°C/Cell.
※ There are a number of factors that will affect the length of cyclic service. The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged. The most critical factor is depth of discharge.