



EV6-335 (6V335Ah)

EV (Electric Vehicle) series is specially designed for frequent deep cycle discharge. By using the specially designed active material and strong grids, the EV series battery offers reliable performance in high load situations and can deliver more than 300 cycles at 100% DOD. Suitable for mobility scooters, electric wheel chairs, golf buggies etc.



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	335Ah@10hr-rate to 1.80V 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 to 6.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	100 A
Equalization and Cycle Service	7.3 to 7.4 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) 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.



MH28539



G4M20206-0910-E-16



CERTIFICATE

Postcode: 421001
is in conformity with
ISO 14001:2004 Standard

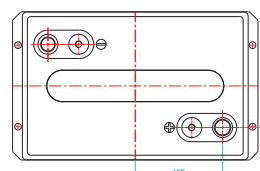
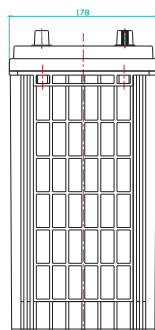
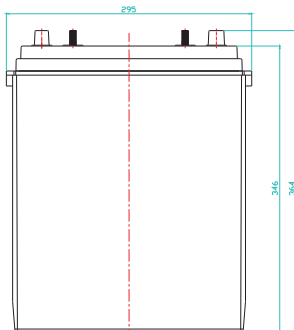


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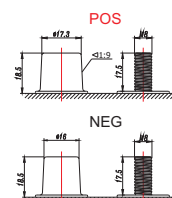
Postcode: 421001
is in conformity with
OHSAS 18001:1999 Standard

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

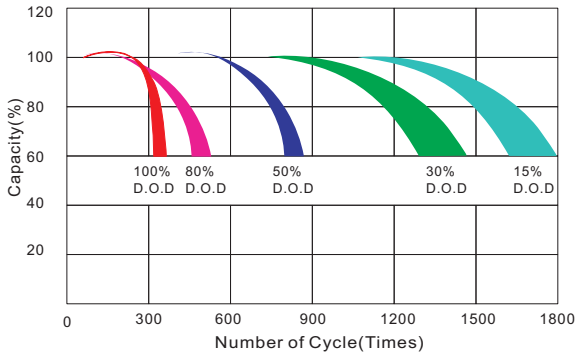
All mentioned values are average values(Tolerance±2%).

EV6-335

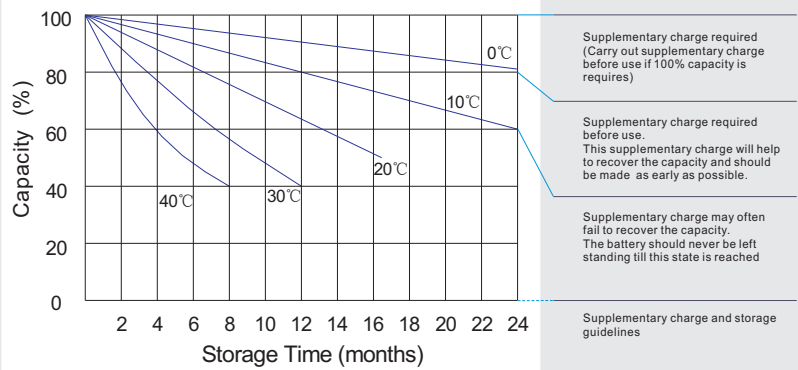
6V335Ah



Life characteristics of cyclic use



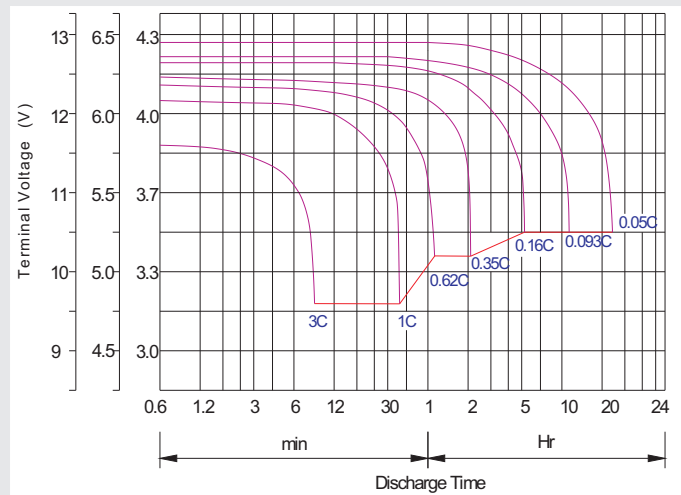
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

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 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6-7N·m	8-10N·m	10-12N·m

Maintenance & Cautions

Cycle service
※ Avoid battery over discharge, especially battery series connection use.
※ Charged with recommend voltage, ensure battery can be full 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.
Generally speaking, the most important factors is depth of discharge.