

VandalVeto® #200109 12V14Ah

Sealed Rechargeable Lead Acid Battery



SPECIFICATIONS

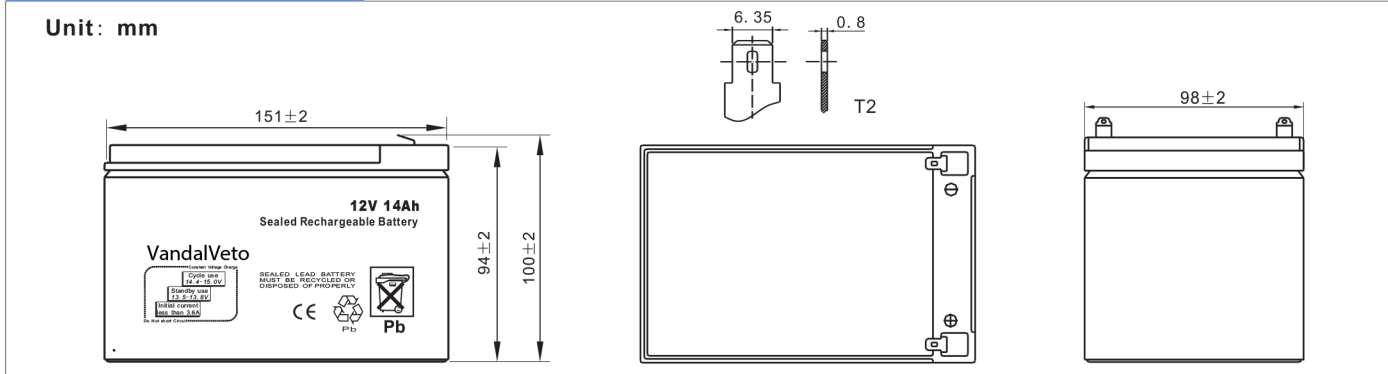
Cells Per Unit	6
Voltage Per Unit	12
Capacity	14Ah@20hr-rate to 1.75V per cell@25C
Weight	Approx. 2.95kg
Max. Discharge Current	180A (5sec)
Internal Resistance	Approx. 19mΩ
Operating Temperature Range	Discharge: -20°C~50°C
	Charge: -20°C~50°C
	Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25°C
Max. Charging Current	3.6A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25°C
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For high temperature, the time interval will be shorter.
Terminal	T2
Container Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

APPLICATION

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system



DIMENSIONS



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

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	41.72	28.68	20.69	12.50	9.15	7.52	3.06	2.10	1.14	0.62
1.65V/cell	40.01	25.97	20.25	12.28	9.05	7.43	3.03	2.08	1.13	0.61
1.70V/cell	36.34	25.07	19.96	12.19	8.94	7.41	3.01	2.06	1.12	0.60
1.75V/cell	32.85	23.09	19.39	12.09	8.65	7.33	3.01	2.04	1.10	0.60
1.80V/cell	29.81	21.44	17.99	11.37	8.57	7.26	2.91	1.98	1.07	0.55

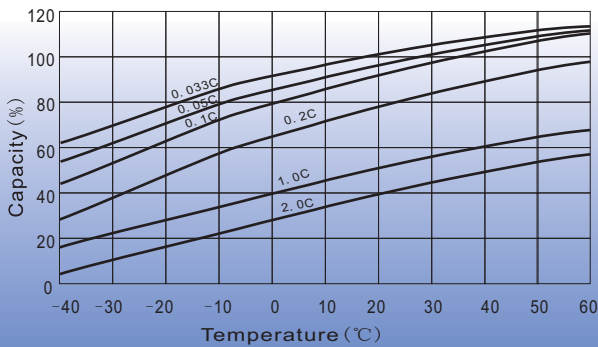
Constant Power Discharge Characteristics Unit: W(25°C, 77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	68.74	47.40	37.35	23.70	17.87	14.81	6.11	4.01	2.27	1.21
1.65V/cell	66.04	47.11	37.11	22.98	17.72	14.76	6.02	3.96	2.25	1.21
1.70V/cell	61.77	45.96	36.39	22.50	17.24	14.45	5.99	3.92	2.22	1.19
1.75V/cell	57.29	43.09	33.99	21.31	17.08	14.33	5.90	3.87	2.18	1.17
1.80V/cell	51.71	40.22	32.08	21.07	16.60	13.97	5.78	3.84	2.15	1.07

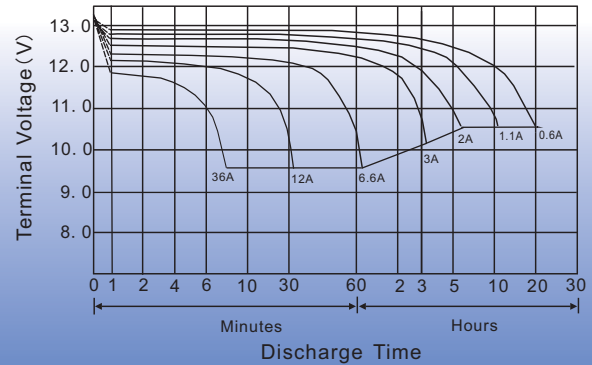
All mentioned values are average values.

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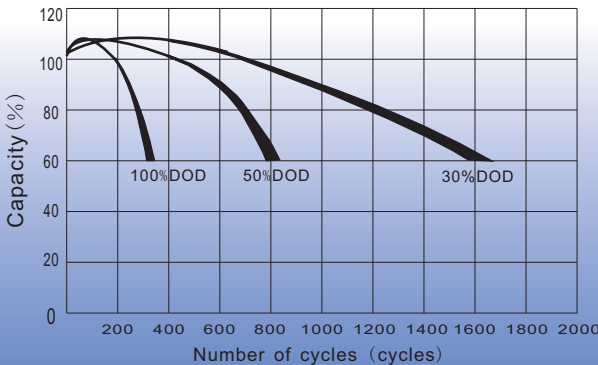
TEMPERATURE EFFECTS CURVE



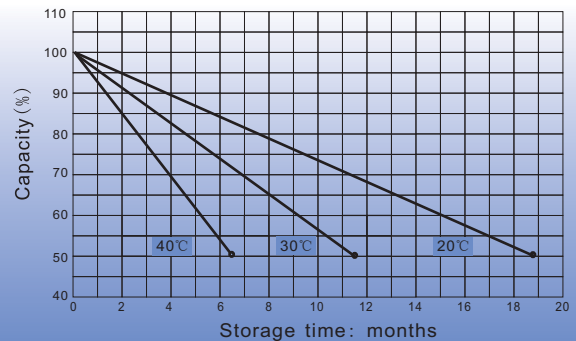
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



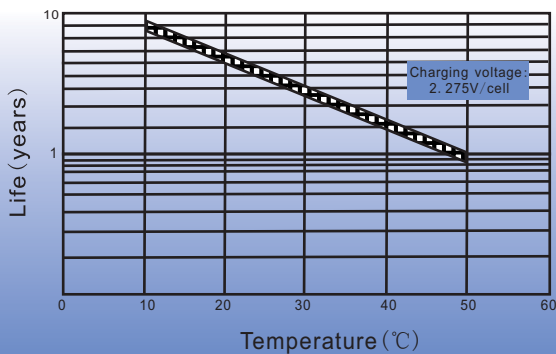
LIFE CHARACTERISTICS OF CYCLIC USE



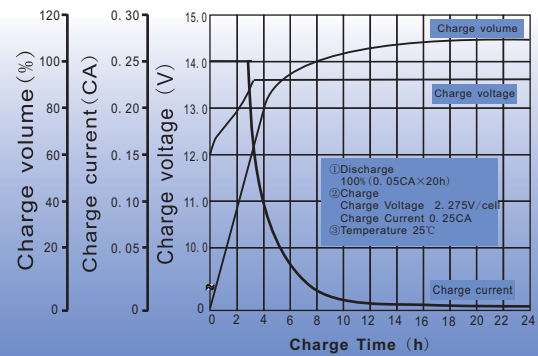
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.3C
Standby Use	25°C	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

Charge the batteries at least once every 6 months, if they are stored at 25°C.

Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.3CA
Constant Current	0.1CA×5h
Fast	0.3CA×1.7h

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