

VandalVeto® #200113 12V1.3Ah

Sealed Rechargeable Lead Acid Battery



SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	1.3Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 0.52kg
Max. Discharge Current	19.5A (5sec)
Internal Resistance	Approx. 43mΩ
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	0.39A
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	Faston Tab 187(T1)
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

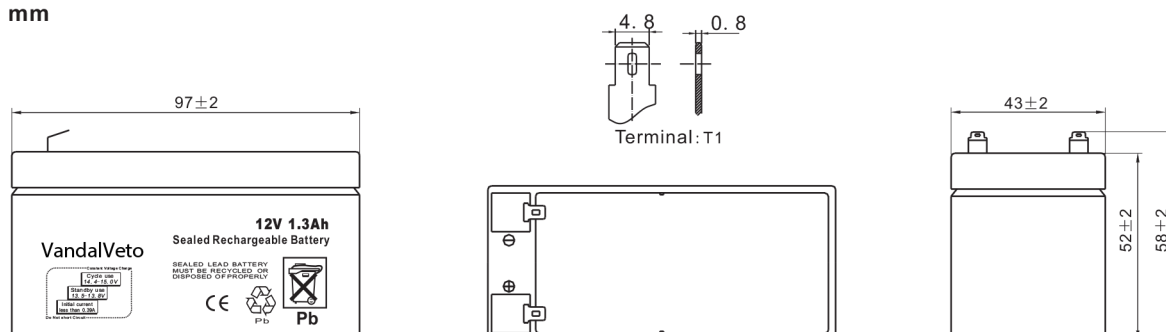
APPLICATION

- 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

Unit: mm



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	4.54	3.12	2.25	1.36	1.00	0.81	0.33	0.24	0.123	0.067
1.65V/cell	4.35	2.83	2.20	1.34	0.98	0.80	0.33	0.23	0.122	0.066
1.70V/cell	3.95	2.73	2.17	1.33	0.97	0.80	0.33	0.22	0.121	0.065
1.75V/cell	3.57	2.51	2.11	1.32	0.94	0.79	0.33	0.22	0.119	0.065
1.80V/cell	3.24	2.33	1.96	1.24	0.93	0.78	0.31	0.21	0.115	0.060

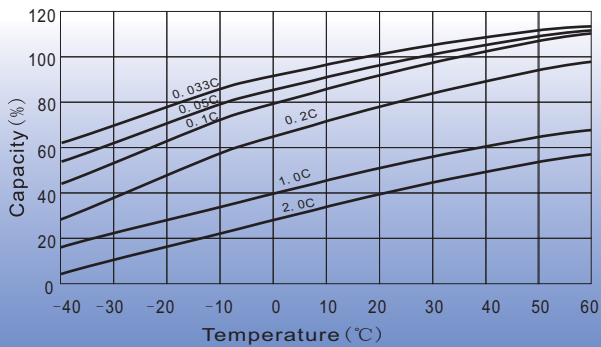
Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	7.48	5.16	4.06	2.58	1.94	1.61	0.66	0.44	0.246	0.132
1.65V/cell	7.18	5.12	4.04	2.50	1.93	1.60	0.65	0.43	0.244	0.131
1.70V/cell	6.72	5.00	3.96	2.45	1.87	1.56	0.65	0.42	0.240	0.130
1.75V/cell	6.23	4.69	3.70	2.32	1.86	1.55	0.64	0.42	0.236	0.128
1.80V/cell	5.62	4.37	3.49	2.29	1.81	1.51	0.62	0.41	0.233	0.117

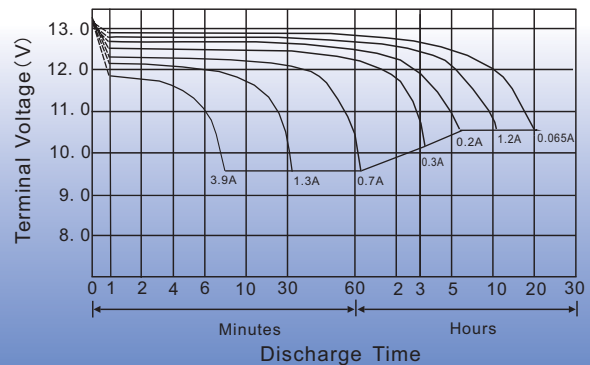
All mentioned values are average values.



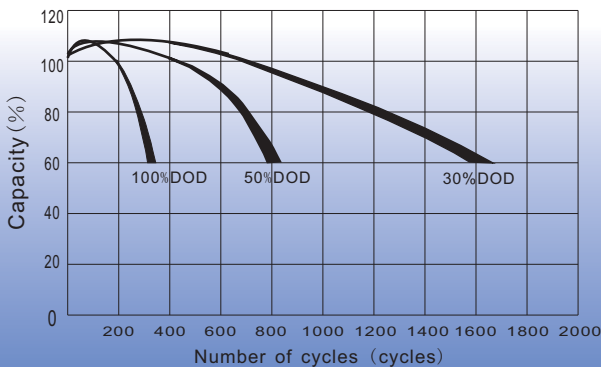
TEMPERATURE EFFECTS CURVE



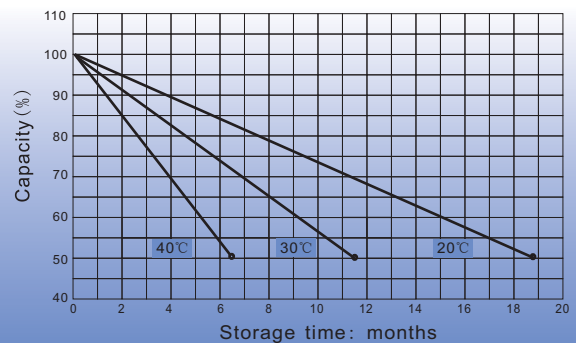
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



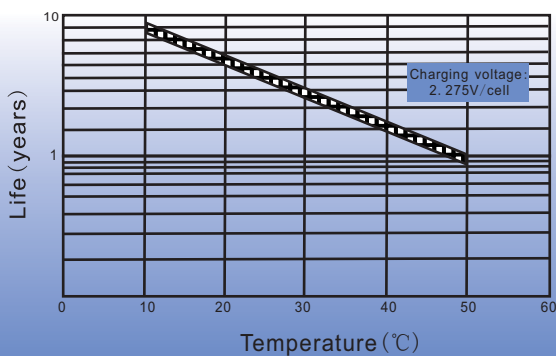
LIFE CHARACTERISTICS OF CYCLIC USE



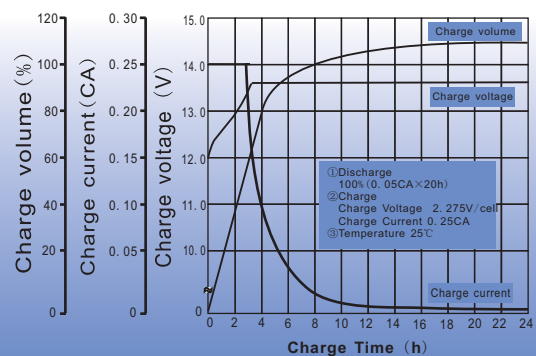
SELF-DISCHARGE CHARACTERISTIC



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	

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 x 5h
Fast	0.3CA x 1.7h

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