

# VandalVeto® #200110 12V7Ah

## Sealed Rechargeable Lead Acid Battery



### SPECIFICATIONS

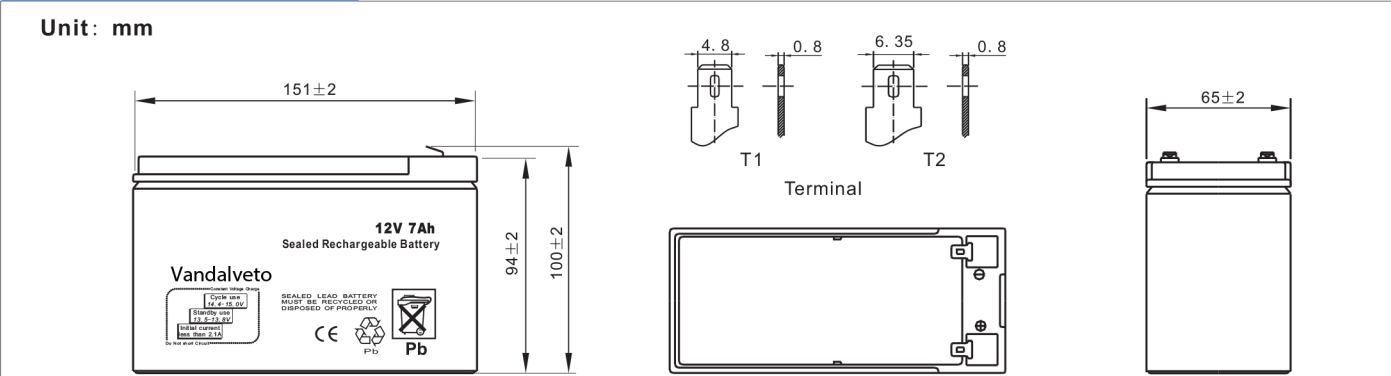
Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 1.9kg
Max. Discharge Current	105A (5sec)
Internal Resistance	Approx. 28mΩ
Operating Temperature Range	Discharge: -20°C~50°C
	Charge: -20°C~50°C
	Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80VDC/unit Average at 25°C
Max. Charging Current	2.1A
Equalization and Cycle service	14.70 to 15.00VDC/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	T1 / 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	24.40	16.77	12.10	7.31	5.35	4.37	1.78	1.22	0.66	0.36
1.65V/cell	23.40	15.19	11.84	7.18	5.29	4.32	1.76	1.21	0.65	0.35
1.70V/cell	21.25	14.66	11.67	7.13	5.23	4.31	1.75	1.20	0.65	0.35
1.75V/cell	19.21	13.50	11.34	7.07	5.06	4.26	1.75	1.20	0.64	0.35
1.80V/cell	17.43	12.54	10.52	6.65	5.01	4.22	1.69	1.15	0.62	0.32

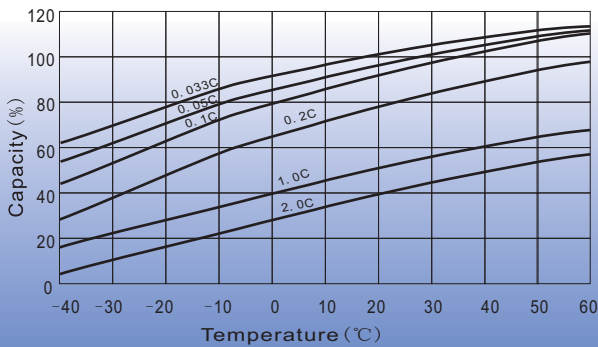
### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	40.20	27.7	21.8	13.9	10.45	8.61	3.55	2.33	1.32	0.71
1.65V/cell	38.62	27.6	21.7	13.4	10.36	8.58	3.50	2.30	1.31	0.71
1.70V/cell	36.12	26.9	21.3	13.2	10.08	8.40	3.48	2.28	1.29	0.70
1.75V/cell	33.50	25.2	19.9	12.5	9.99	8.33	3.43	2.25	1.27	0.69
1.80V/cell	30.24	23.5	18.8	12.3	9.71	8.12	3.36	2.23	1.25	0.63

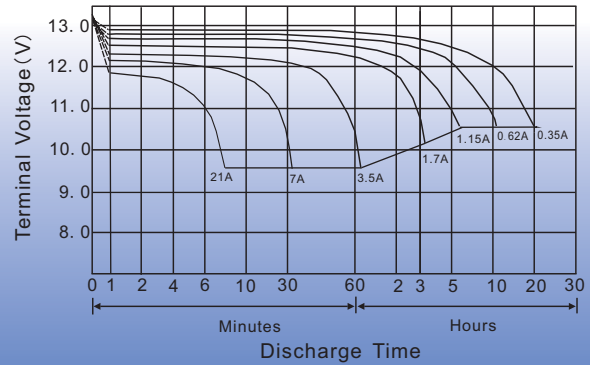
All mentioned values are average values.

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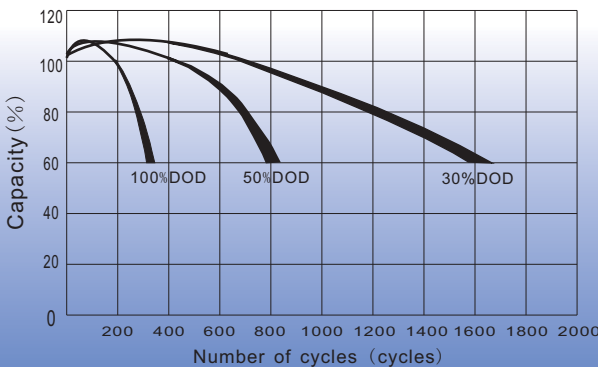
TEMPERATURE EFFECTS CURVE



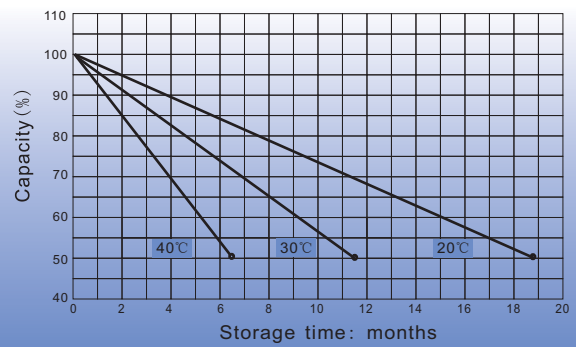
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



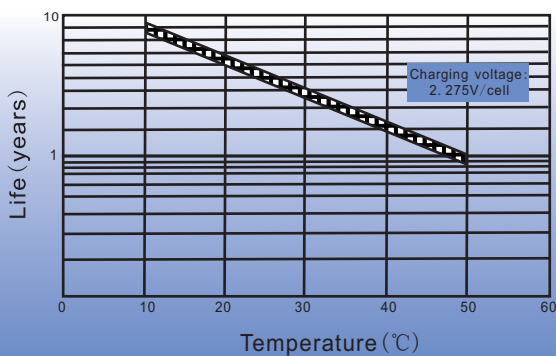
LIFE CHARACTERISTICS OF CYCLIC USE



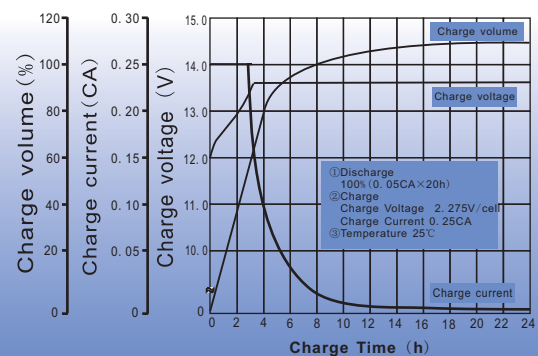
SELF-DISCHARGE CHARACTERISTIC



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	

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

Version 1.0

## 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

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