



SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	18Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 4.85kg
Max. Discharge Current	200A (5sec)
Internal Resistance	Approx. 9mΩ
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	5.1A
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	T3 / T10
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

APPLICATION

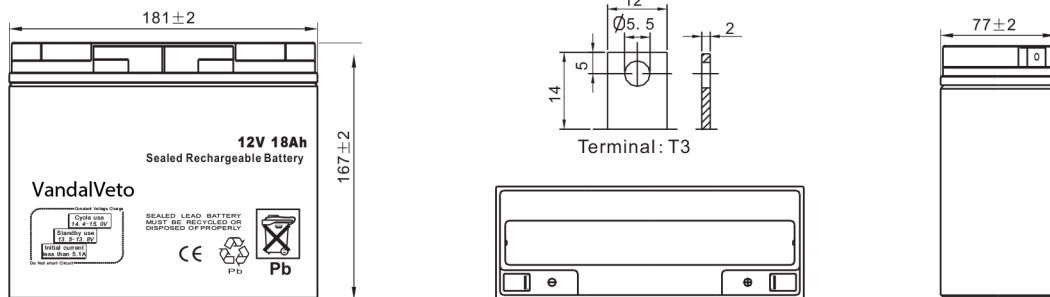
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system



ISO9001

DIMENSIONS

Unit: mm



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

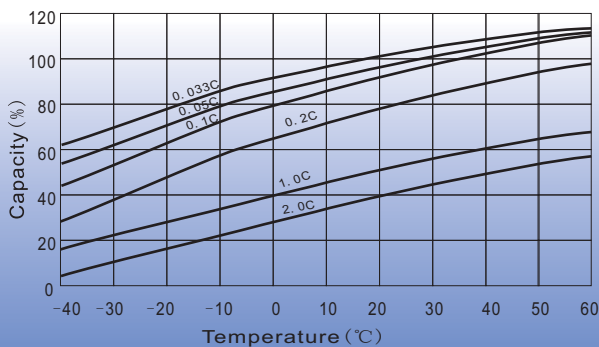
F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	59.29	40.75	29.40	17.76	13.00	10.62	4.33	2.96	1.60	0.88
1.65V/cell	56.86	36.91	28.77	17.45	12.85	10.50	4.28	2.94	1.59	0.87
1.70V/cell	51.64	35.62	28.36	17.33	12.71	10.47	4.26	2.93	1.58	0.86
1.75V/cell	46.68	32.81	27.56	17.18	12.30	10.35	4.25	2.92	1.56	0.85
1.80V/cell	42.35	30.47	25.56	16.16	12.17	10.25	4.11	2.79	1.51	0.78

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

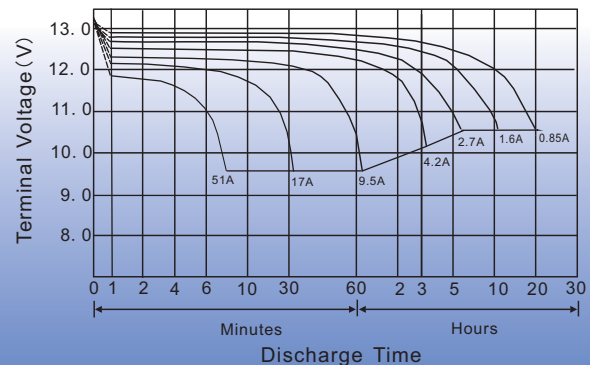
F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	97.69	67.36	53.07	33.68	25.39	20.92	8.63	5.66	3.21	1.73
1.65V/cell	93.85	66.95	52.73	32.66	25.17	20.85	8.51	5.59	3.18	1.73
1.70V/cell	87.77	65.32	51.71	31.98	24.49	20.41	8.46	5.54	3.13	1.70
1.75V/cell	81.41	61.24	48.31	30.28	24.28	20.24	8.33	5.47	3.09	1.68
1.80V/cell	73.48	57.15	45.59	29.94	23.60	19.73	8.16	5.42	3.04	1.53

All mentioned values are average values.

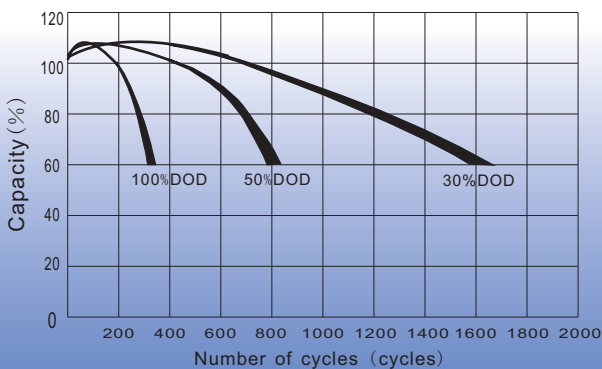
TEMPERATURE EFFECTS CURVE



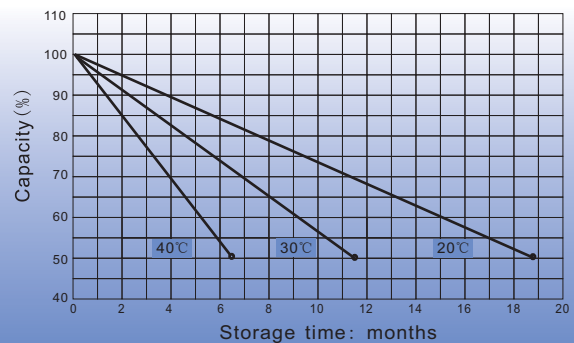
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



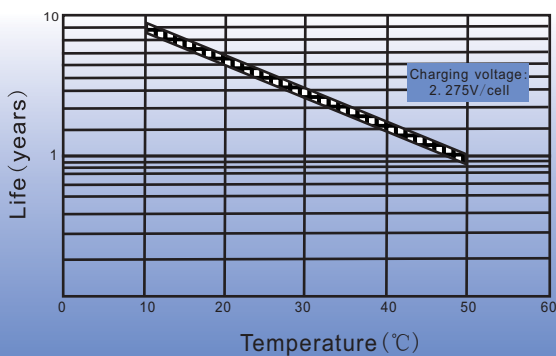
LIFE CHARACTERISTICS OF CYCLIC USE



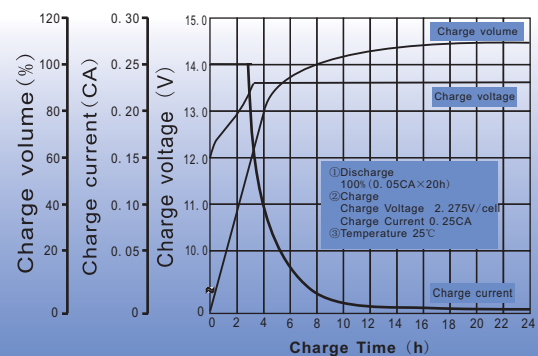
SELF-DISCHARGE CHARACTERISTIC



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	

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 x 5h
Fast	0.3CA x 1.7h