



VTM 42A-12

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(2.1A	to	10.50V)	42Ah
10 hour rate	(3.99A	to	10.50V)	39.9Ah
5 hour rate	(7.14A	to	10.20V)	35.7Ah
1 C	(42A	to	9.60V)	23.8Ah
3 C	(126A	to	9.60V)	16.8Ah

Weight **Approx. 13.4kg(29.5Lbs.)**

Internal Resistance (at 1KHz) **Approx. 7.5 mΩ**

Maximum Discharge Current for 5 seconds: **630A**

Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	12.6A
Standby use:	
Float Charging Voltage	13.5 to 13.8V
Coefficient	-3.0mV/°C/cell

Operating Temperature Range

Charge	-15°C (5°F)	to	40°C (104°F)
Discharge	-15°C (5°F)	to	50°C (122°F)
Storage	-15°C (5°F)	to	40°C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

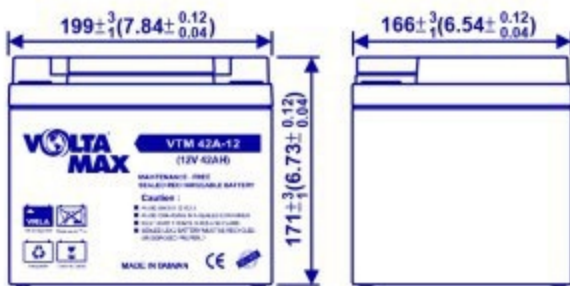
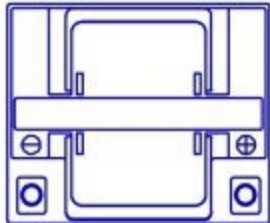
1 month	92%
3 month	90%
6 month	80%

Case Material **ABS UL94 HB**

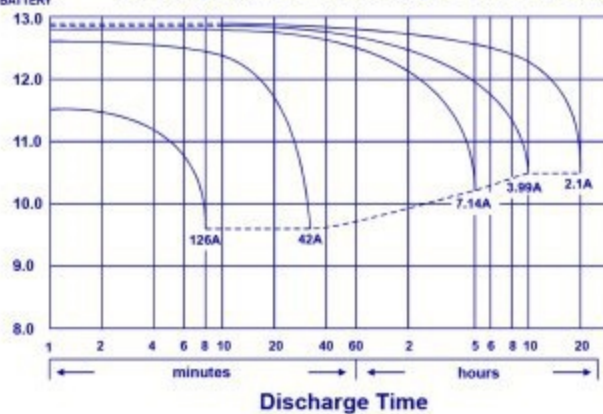
Terminal **F8**

Description of torque value of hard ware for the terminals:
 Recommended torque value **M6: 7 N-m (71kgf-cm)**
 Maximum allowable torque value **M6: 9 N-m (92kgf-cm)**

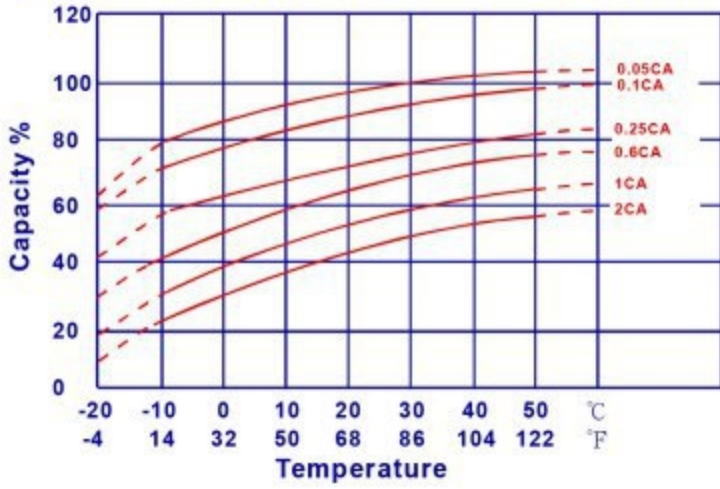
Dimensions mm(inch)



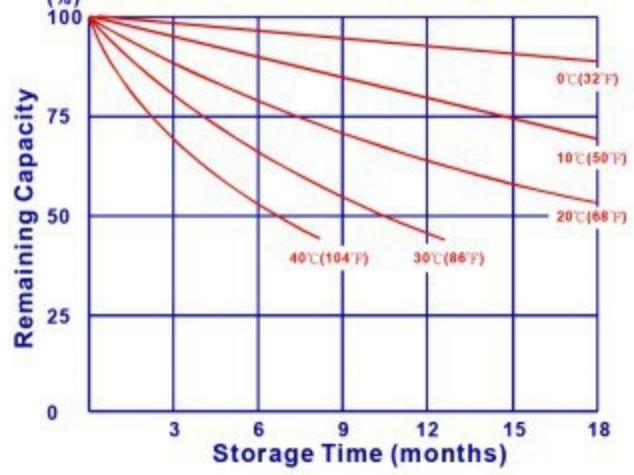
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



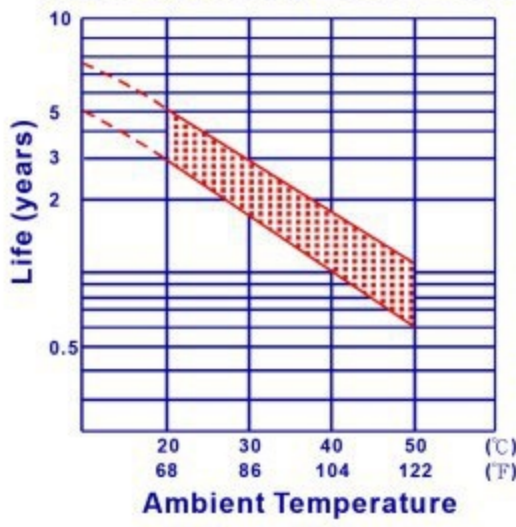
Effect of Temperature on Capacity 25°C (77°F)



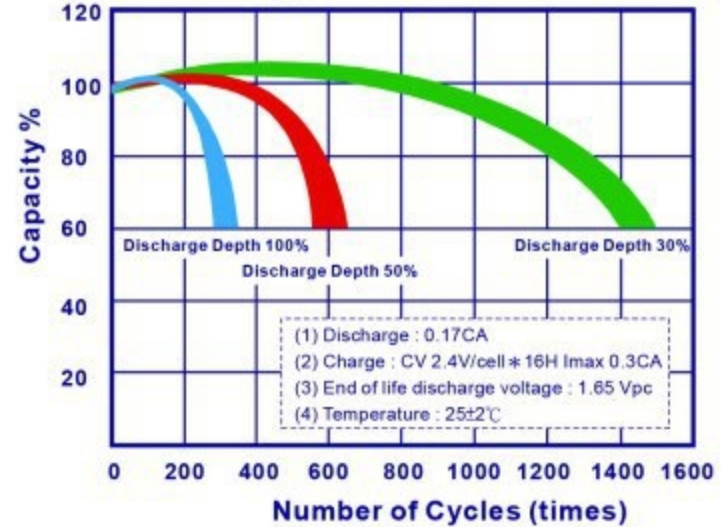
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



(1) Discharge : 0.17CA
 (2) Charge : CV 2.4V/cell * 16H I_{max} 0.3CA
 (3) End of life discharge voltage : 1.65 Vpc
 (4) Temperature : 25±2°C