



# VTM 4.5A-12

## Specifications

Nominal Voltage(V) 12V

### Nominal Capacity

20 hour rate	(0.225A to 10.50V)	4.5Ah
10 hour rate	(0.428A to 10.50V)	4.275Ah
5 hour rate	(0.765A to 10.20V)	3.825Ah
1 C	(4.5A to 9.60V)	2.55Ah
3 C	(13.5A to 9.60V)	1.8Ah

Weight Approx. 1.60kg(3.52Lbs.)

Internal Resistance (at 1KHz) Approx. 35 mΩ

Maximum Discharge Current for 5 seconds: 67.5A

### Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	1.35A
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)

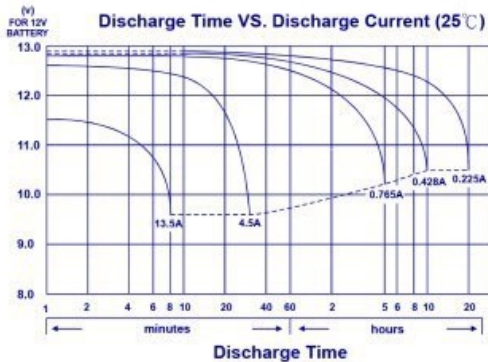
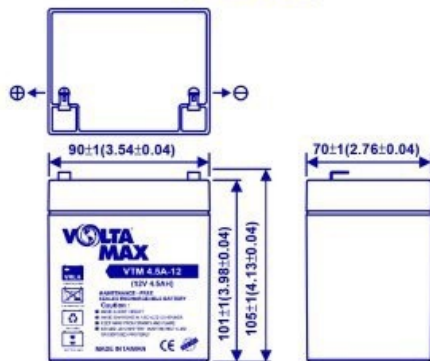
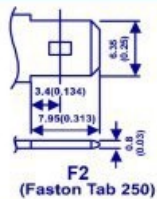
### Charge Retention (shelf life) at 20°C (68°F)

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

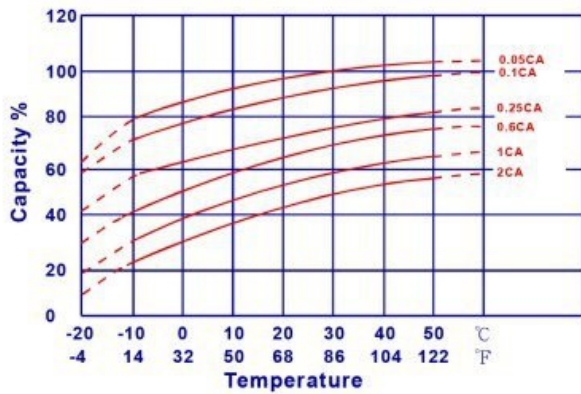
Case Material ABS UL94 HB

Terminal F2 (Faston Tab 250)

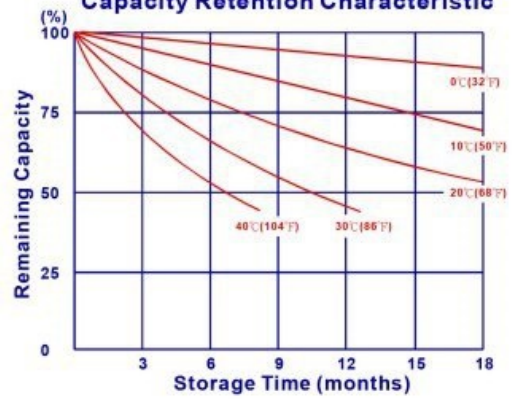
## Dimensions mm(inch)



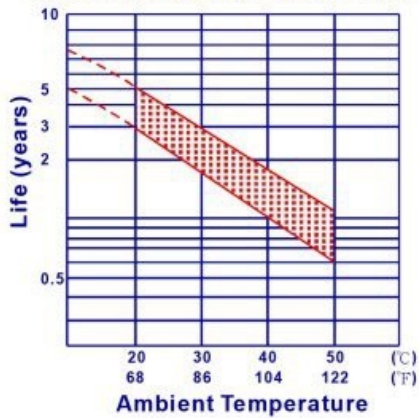
**Effect of Temperature on Capacity 25°C (77°F)**



**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**

