

## VIP-4-12 Valve regulated Sealed Lead-Acid Battery



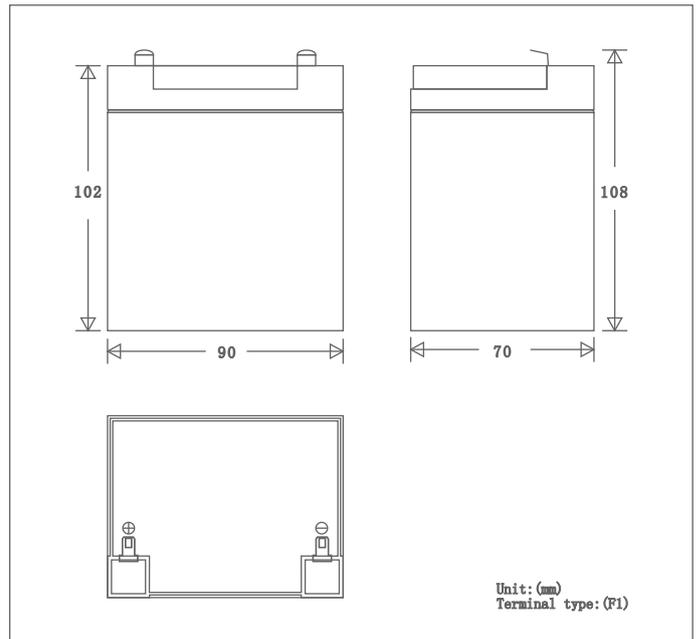
### ■ Specifications

Nominal Voltage		12 V
Rated Capacity (20 hours Rate)		4.0 Ah
Dimension	Total Height (with Terminals)	108 mm
	Length	90 mm
	Width	70 mm
Height		102 mm
Weight aprox.		1.45 kg

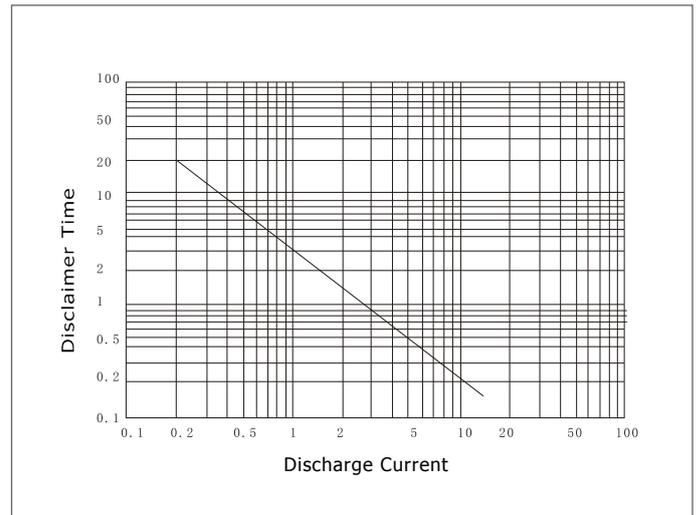
### ■ Characteristics

Capacity (25°)	20 hrs rate (0.2A)	4.0 Ah
Discharge Current Testing (25°)	20 <sub>1</sub> Rate (4A, 27 min)	38.5 min
	60 <sub>1</sub> Rate (12A, 7 min)	8.5 min
Internal Resistance	Full charged Battery 25°C	45 mΩ
Capacity affected by Temperature (20 hours rate)	40°C	102%
	25°C	100%
	0°	85%
	-15°C	62%
Residual Capacity (25°)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	82%
	Capacity after 12 months storage	64%
Cycle (Above 300 times)		Discharge 2 hrs at 1.0 A current Charge 6 hrs at 0.4 A current (25°C)
Charge (Constant Voltage)	Cycle (25°)	Initial charging current less than 1.2 A Voltage 14.5~14.9V
	Float (25°)	charge Voltage 13.6~ 13.8V

\*The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.



### ■ Discharge Current & Duration Time



### ■ Discharge Curves 25°C

