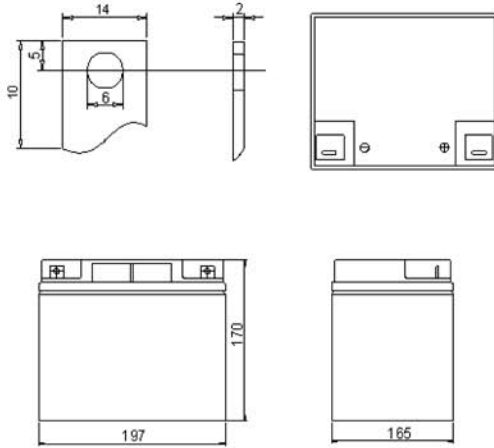


**VM Series SLA Battery**



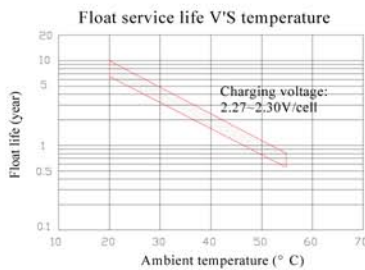
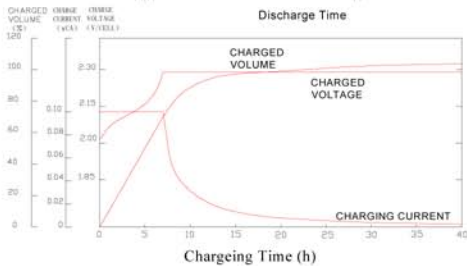
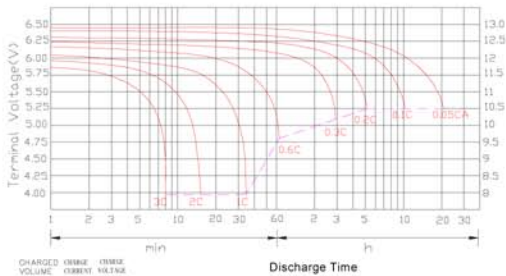
● **Specifications**

<b>Nominal Voltage</b>		<b>12V</b>
<b>Rated Capacity</b>		<b>45Ah</b>
<b>Dimensions</b>	<b>Total Height</b>	<b>6.69 inches (170mm)</b>
	<b>Height</b>	<b>6.69 inches (170mm)</b>
	<b>Length</b>	<b>7.76 inches (197mm)</b>
	<b>Width</b>	<b>6.50 inches (165mm)</b>
<b>Approximate Weight</b>		<b>30.86 lbs. (14.0kg)</b>

● **Characteristic**

<b>Capacity 77°F(25°C)</b>	<b>20h rate</b>	<b>47.2Ah</b>
	<b>10h rate</b>	<b>45.0Ah</b>
	<b>5h rate</b>	<b>38.2Ah</b>
	<b>1h rate</b>	<b>27.0Ah</b>
	<b>15 min rate</b>	<b>18.0Ah</b>
<b>Internal Resistance</b>	<b>Full Charged Battery 77°F(25°C)</b>	<b>Approx. 8.0m Ω</b>
<b>Capacity Affected by Temperature (20h rate)</b>	<b>104°F(40°C)</b>	<b>102%</b>
	<b>77°F(25°C)</b>	<b>100%</b>
	<b>32°F(0°C)</b>	<b>85%</b>
	<b>5°F(-15°C)</b>	<b>65%</b>
<b>Self-Discharge 68°F(20°C) (Capacity after)</b>	<b>3 month storage</b>	<b>90%</b>
	<b>6 month storage</b>	<b>80%</b>
	<b>12 month storage</b>	<b>60%</b>
<b>Max. Discharge Current 77°F(25°C)</b>	<b>450A(5s)</b>	
<b>Terminal</b>	<b>T4 /T11</b>	
<b>Charge (Constant Voltage,25°C)</b>	<b>Cycle</b>	<b>14.4~14.7V(-24mV/°C) max. current: 13.5 A</b>
	<b>Float</b>	<b>13.6~13.8V(-18mV/°C)</b>

DISCHARGE CHARACTERISTICS AT 25° C(77° F)



**Constant Current Discharge Characteristics (A,25°C)**

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	130	88.0	73.0	43.0	27.0	11.2	7.82	4.47	2.28
10.2V	124	83.6	70.1	41.3	25.9	11.0	7.70	4.43	2.26
10.5V	116	78.6	66.6	39.2	24.6	10.8	7.55	4.40	2.25

**Constant Wattage Discharge Characteristics (Watt,25°C)**

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	1365	950	802	482	308	131	92.4	53.3	27.4
10.2V	1297	903	769	463	295	129	91.0	52.9	27.2
10.5V	1219	849	731	440	281	127	89.2	52.9	27.0