

## WP4.5-6 6Volt 4.5Ah

### Specifications

**Nominal Voltage(V)** **6V**

#### Nominal Capacity

20 hour rate	(0.225A to	5.25V)	<b>4.5Ah</b>
10 hour rate	(0.428A to	5.25V)	<b>4.275Ah</b>
5 hour rate	(0.765A to	5.1V)	<b>3.825Ah</b>
1 C	(4.5A to	4.8V)	<b>2.55Ah</b>
3 C	(13.5A to	4.8V)	<b>1.8Ah</b>

**Weight** **Approx. 820g(1.80Lbs.)**

**Internal Resistance (at 1KHz)** **Approx. 19 mΩ**

**Maximum Discharge Current for  
5 seconds:** **67.5A**

#### Charging Methods at 25 (77 )

Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **1.35A**

Standby use:

Float Charging Voltage **6.75 to 6.90V**

Coefficient -3.0mV/ /cell

#### Operating Temperature Range

Charge **-15 (5 ) to 40 (104 )**

Discharge **-15 (5 ) to 50 (122 )**

Storage **-15 (5 ) to 40 (104 )**

#### Charge Retention (shelf life) at 20 (68 )

1 month **92%**

3 month **90%**

6 month **80%**

**Case Material** **ABS UL94 HB**

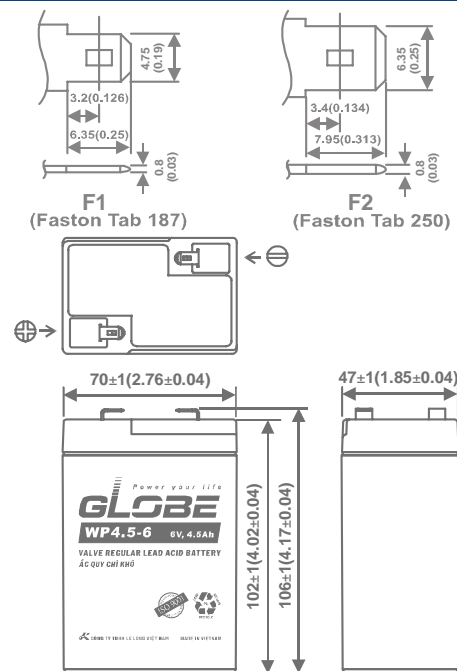
Option: Flammability resistance of (UL94 V-0)

**Terminal** **F1 or F2 (Faston Tab 187 or 250)**

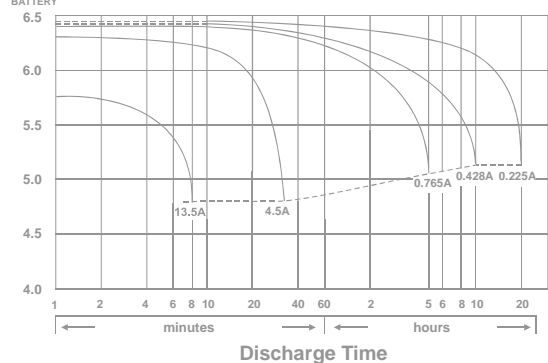


### Dimensions

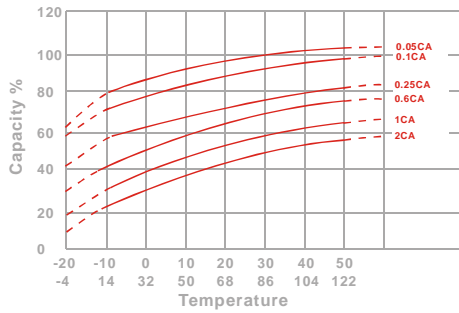
mm(inch)



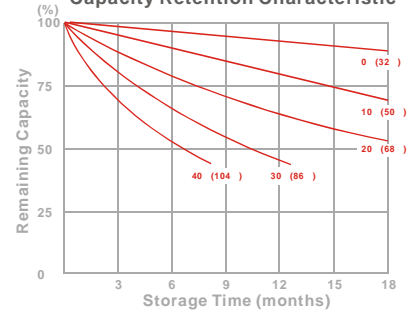
(V) FOR 6V BATTERY Discharge Time VS. Discharge Current (25 )



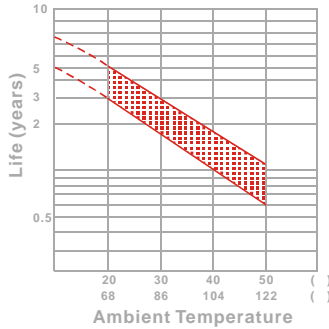
**Effect of Temperature on Capacity 25 (77 )**



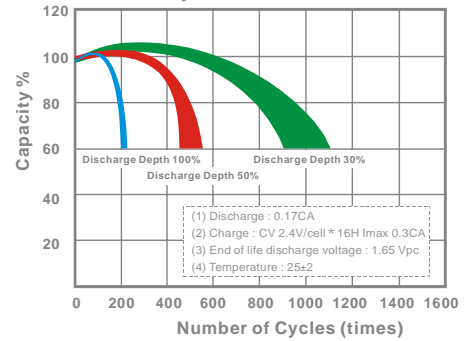
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



**- PERFORMANCE DATA**

**Discharge Rates in Watts to Various End Voltages at 25 (77 )**

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
<b>Time</b>								
5	min	23.8	26.8	29.0	31.0	31.8	32.8	34.0
10	min	17.0	19.2	20.5	21.5	22.0	22.5	23.0
15	min	14.1	15.6	16.2	16.5	16.7	16.8	17.0
30	min	8.18	9.15	9.52	9.70	9.80	9.92	10.0
60	min	4.20	4.77	5.13	5.43	5.53	5.65	5.73
120	min	2.48	2.77	2.90	3.00	3.05	3.12	3.18
180	min	1.97	2.17	2.27	2.35	2.38	2.43	2.48
240	min	1.60	1.73	1.80	1.85	1.88	1.92	1.95
300	min	1.46	1.56	1.60	1.64	1.65	1.68	1.72
600	min	0.855	0.913	0.940	0.960	0.968	0.978	0.992
1200	min	0.432	0.468	0.498	0.510	0.513	0.520	0.527

**- Discharge Rates in Amperes to Various End Voltages at 25 (77 )**

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
<b>Time</b>								
5	min	15.3	17.6	18.9	19.5	19.7	19.9	20.2
10	min	10.5	11.7	11.9	12.1	12.2	12.3	12.4
15	min	7.56	8.22	8.71	8.92	8.99	9.07	9.15
30	min	4.39	4.94	5.11	5.25	5.30	5.35	5.41
60	min	2.36	2.61	2.73	2.84	2.87	2.91	2.94
120	min	1.32	1.44	1.50	1.54	1.55	1.57	1.59
180	min	1.09	1.15	1.18	1.20	1.21	1.22	1.23
240	min	0.835	0.891	0.916	0.942	0.948	0.955	0.963
300	min	0.776	0.812	0.825	0.837	0.841	0.846	0.852
600	min	0.435	0.452	0.464	0.473	0.477	0.481	0.486
1200	min	0.219	0.233	0.241	0.247	0.250	0.253	0.257

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X < 60min(+8%~-8%), X 60min(+5%~-5%)

211016-11-V



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