

## WP20-6 6Volt 20Ah

### Specifications

Nominal Voltage(V) **6V**

#### Nominal Capacity

20 hour rate	(1A	to	5.25V)	<b>20Ah</b>
10 hour rate	(1.9A	to	5.25V)	<b>19Ah</b>
5 hour rate	(3.4A	to	5.1V)	<b>17Ah</b>
1 C	(20A	to	4.8V)	<b>11.33Ah</b>
3 C	(60A	to	4.8V)	<b>8Ah</b>

Weight **Approx. 4.0kg(8.8Lbs.)**

Internal Resistance (at 1KHz) **Approx. 5 mΩ**

#### Maximum Discharge Current for

5 seconds: **300A**

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **6A**

##### Standby use:

Float Charging Voltage **6.75 to 6.90V**

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**

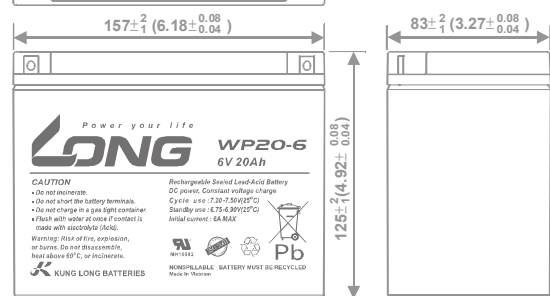
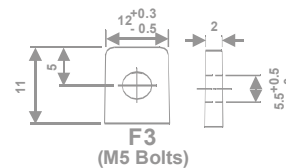
(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F3**

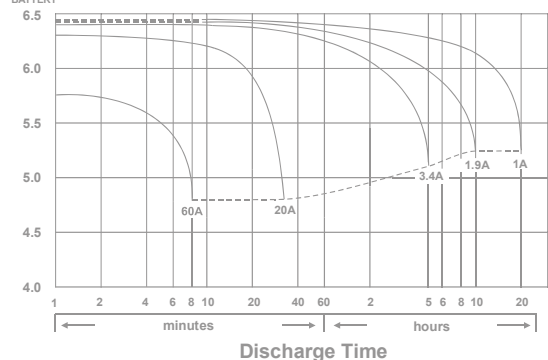


### Dimensions

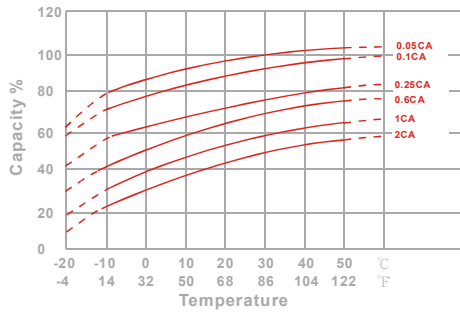
mm(inch)



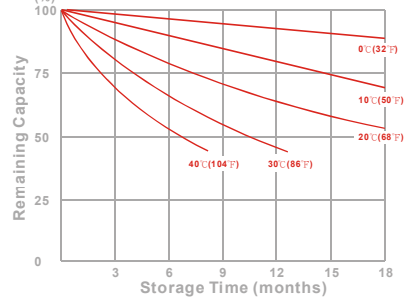
(V) FOR 6V BATTERY Discharge Time VS. Discharge Current (25°C)



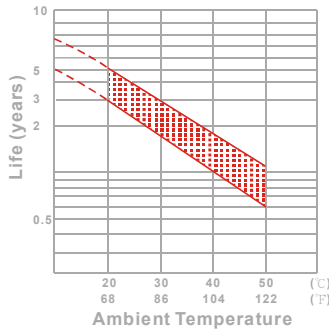
Effect of Temperature on Capacity 25°C(77°F)



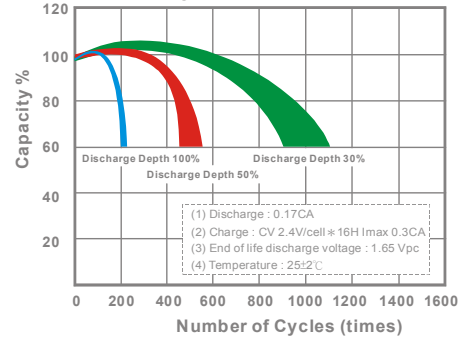
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



## - PERFORMANCE DATA

### Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	331	383	418	439	445	451	457
10	min	236	266	289	302	306	310	314
15	min	205	226	241	250	253	256	258
30	min	107	114	122	127	128	129	131
60	min	66.5	69.5	72.0	74.0	74.5	75.5	76.5
120	min	36.6	38.2	39.1	40.4	40.7	41.0	41.5
180	min	28.6	29.7	30.4	31.0	31.2	31.4	31.7
240	min	22.9	23.8	24.4	24.8	25.0	25.2	25.4
300	min	20.0	20.6	21.0	21.3	21.4	21.6	21.7
600	min	11.6	12.0	12.2	12.4	12.5	12.6	12.7
1200	min	6.15	6.35	6.50	6.60	6.65	6.70	6.74

### - Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	69.6	75.4	79.1	82.3	83.7	85.1	87.6
10	min	46.7	49.9	52.4	54.6	55.5	56.5	58.2
15	min	35.4	38.1	39.8	41.3	41.9	42.6	43.5
30	min	18.9	20.4	21.5	22.4	22.7	23.1	23.6
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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

The tolerance range :  $X < 6\text{min}$ (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$ (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$ (+8%~-8%),  $X \geq 60\text{min}$ (+5%~-5%)