

## WP3.3-12 12Volt 3.3Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(0.165A to 10.50V)	<b>3.3Ah</b>
10 hour rate	(0.314A to 10.50V)	<b>3.134Ah</b>
5 hour rate	(0.561A to 10.20V)	<b>2.805Ah</b>
1 C	(3.3A to 9.60V)	<b>2.09Ah</b>
3 C	(9.9A to 9.60V)	<b>1.32Ah</b>

Weight **Approx. 1.30kg(2.86Lbs.)**

Internal Resistance (at 1KHz) **Approx. 34 mΩ**

#### Maximum Discharge Current for

5 seconds: **49.5A**

#### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **0.99A**

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**

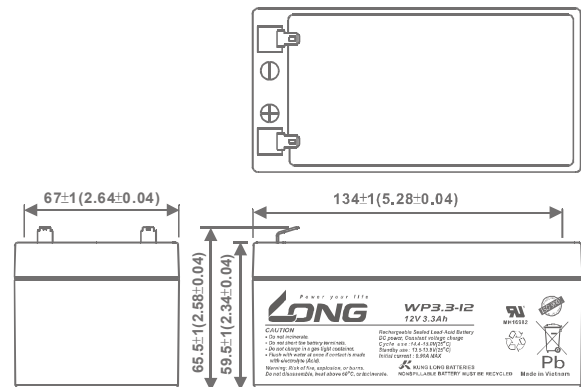
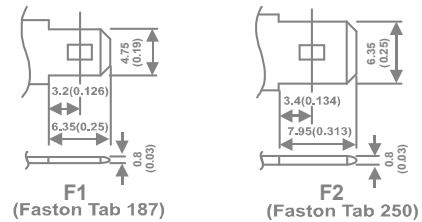
(Option: UL94 HB & UL94 V-0 flame retardant )

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

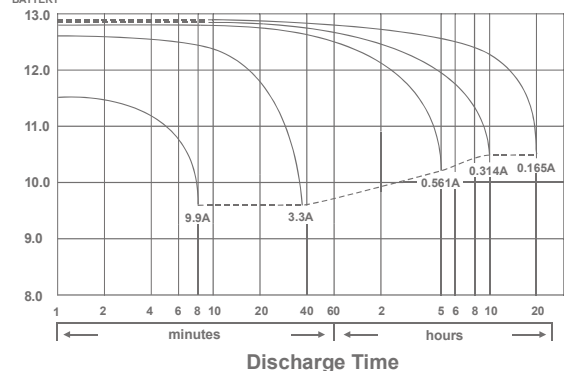


### Dimensions

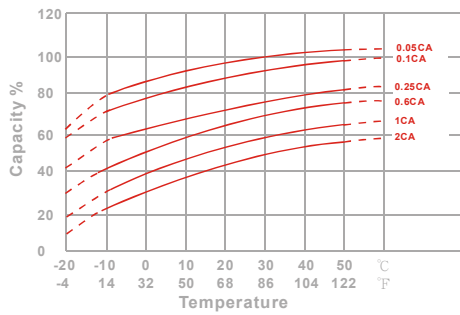
mm(inch)



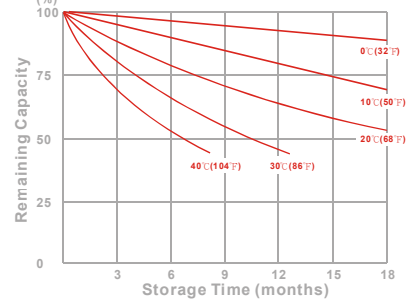
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



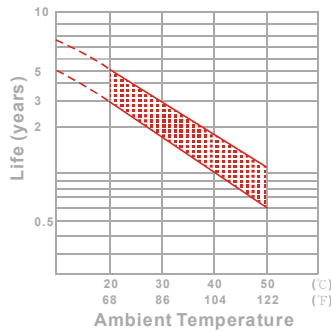
Effect of Temperature on Capacity 25°C(77°F)



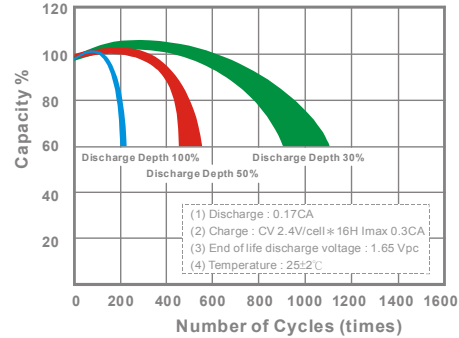
Capacity Retention Characteristic



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	112	123	132	139	141	144	147
10	min	79.4	86.3	90.2	93.9	95.4	97.1	99.5
15	min	67.7	71.9	73.8	75.7	76.4	77.2	78.1
30	min	33.7	36.5	38.1	39.4	39.9	40.5	41.2
60	min	19.5	20.8	21.9	22.8	23.1	23.5	23.8
120	min	11.5	12.2	12.9	13.4	13.5	13.7	13.9
180	min	8.92	9.28	9.67	10.0	10.1	10.2	10.3
240	min	7.53	7.82	7.98	8.11	8.16	8.22	8.29
300	min	6.57	6.78	6.92	7.01	7.04	7.08	7.13
600	min	4.84	4.97	4.03	4.08	4.10	4.13	4.16
1200	min	1.98	2.07	2.13	2.18	2.19	2.21	2.23

### - 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	12.8	13.4	13.8	14.1	14.2	14.4	14.5
10	min	7.96	8.33	8.52	8.68	8.74	8.81	8.89
15	min	6.08	6.29	6.40	6.49	6.52	6.56	6.61
30	min	3.22	3.36	3.44	3.50	3.52	3.54	3.56
60	min	1.85	1.94	1.98	2.01	2.02	2.03	2.04
120	min	1.01	1.08	1.11	1.13	1.14	1.15	1.16
180	min	0.732	0.781	0.806	0.827	0.834	0.842	0.851
240	min	0.597	0.625	0.646	0.661	0.666	0.672	0.680
300	min	0.509	0.541	0.557	0.570	0.574	0.579	0.585
600	min	0.304	0.321	0.330	0.336	0.338	0.341	0.343
1200	min	0.156	0.165	0.171	0.176	0.178	0.180	0.182

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%)