

WPS380 12Volt 380W

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

63.3W@5minute-rate to 1.6V per cell

5 hour rate	(1.02A to 10.20V)	5.1Ah
1 C	(6A to 9.60V)	3.8Ah
3 C	(18A to 9.60V)	2.4Ah

Weight **Approx. 2.05kg(4.51Lbs.)**

Internal Resistance (at 1KHz) **Approx. 16 mΩ**

Maximum Discharge Current for

5 seconds: **90A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **1.8A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

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**

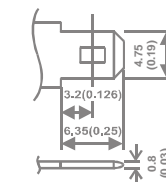
(Option: UL94 HB & UL94 V-0 flame retardant)

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

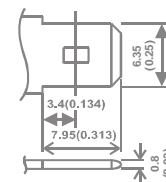


Dimensions

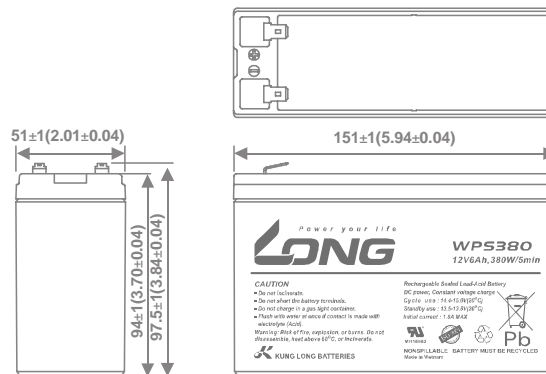
mm(inch)



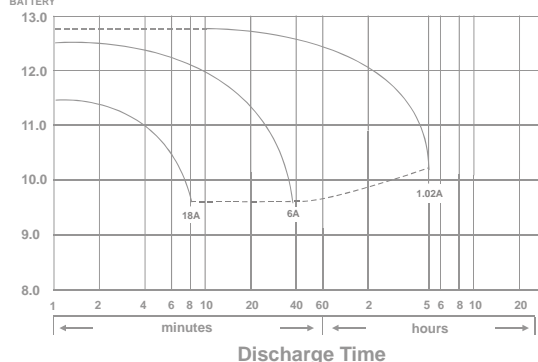
F1
(FASTON TAB NO. 187)



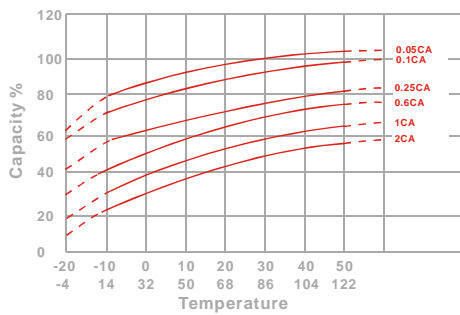
F2
(FASTON TAB NO. 250)



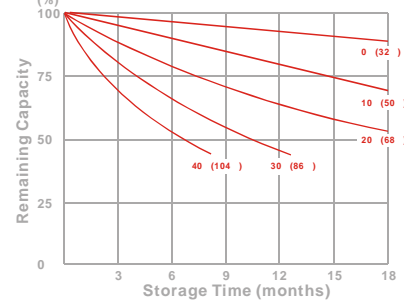
Discharge Time VS. Discharge Current (25)



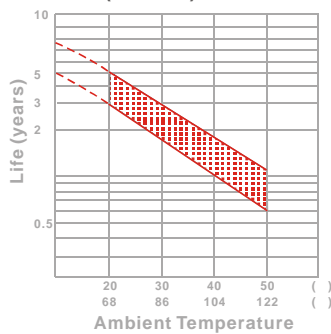
Effect of Temperature on Capacity 25 (77)



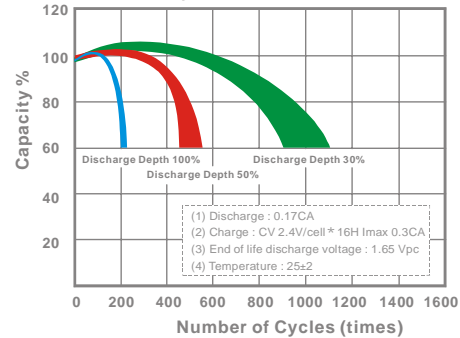
Capacity Retention Characteristic



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
Time								
5	min	283	318	340	358	364	371	380
10	min	159	180	193	203	208	211	217
15	min	118	130	139	146	148	151	154
30	min	71.0	76.7	79.8	82.7	83.8	85.0	86.8
60	min	38.9	42.1	43.9	45.5	46.0	46.6	47.5
120	min	20.7	23.2	24.3	25.4	25.8	26.3	27.0
180	min	15.6	17.1	18.4	19.3	19.6	20.0	20.5
240	min	13.2	14.2	14.9	15.6	15.8	16.1	16.4
300	min	12.1	12.9	13.4	13.8	13.9	14.1	14.3
600	min	7.51	7.63	7.72	7.79	7.81	7.84	7.88
1200	min	3.94	4.02	4.07	4.12	4.14	4.16	4.18

- 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
Time								
5	min	21.8	25.3	27.6	29.7	30.4	31.3	32.5
10	min	13.7	15.3	16.4	17.3	17.6	18.0	18.6
15	min	10.9	11.8	12.5	13.0	13.2	13.3	13.5
30	min	6.11	6.54	6.81	7.04	7.13	7.25	7.42
60	min	3.27	3.49	3.64	3.77	3.83	3.88	3.96
120	min	1.93	2.02	2.08	2.14	2.16	2.19	2.23
180	min	1.44	1.49	1.55	1.60	1.62	1.64	1.67
240	min	1.11	1.19	1.24	1.28	1.29	1.31	1.33
300	min	0.981	1.05	1.09	1.12	1.13	1.14	1.15
600	min	0.585	0.604	0.611	0.618	0.620	0.623	0.627
1200	min	0.306	0.313	0.318	0.323	0.325	0.327	0.329

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%)

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