

WP45-12N 12Volt 45Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(2.25A to 10.50V)	45Ah
10 hour rate	(4.275A to 10.50V)	42.75Ah
5 hour rate	(7.65A to 10.20V)	38.25Ah
1 C	(45A to 9.60V)	25.5Ah
3 C	(135A to 9.60V)	18Ah

Weight Approx. 14.5kg(31.9Lbs.)

Internal Resistance (at 1KHz) Approx. 7 mΩ

Maximum Discharge Current for

5 seconds: 540A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 13.5A

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 F8

Description of torque value of hard ware for the terminals:

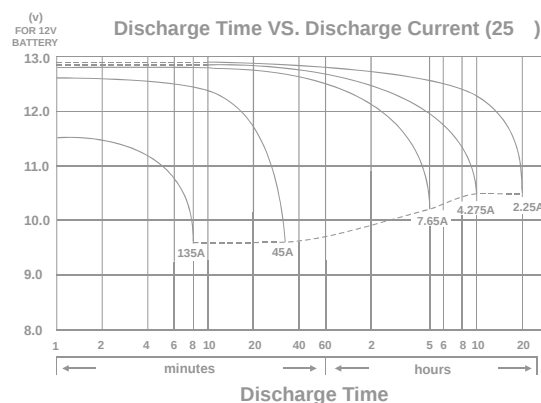
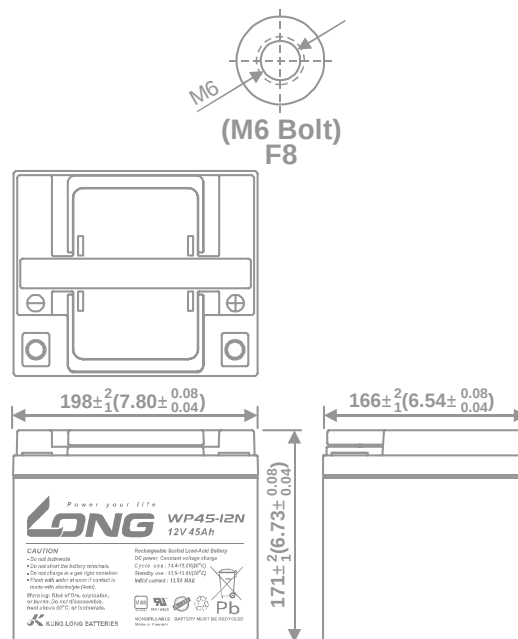
Recommended torque value M6: 5.39 N-m (55kg-cm)

Maximum allowable torque value M6: 8.82 N-m (90kg-cm)

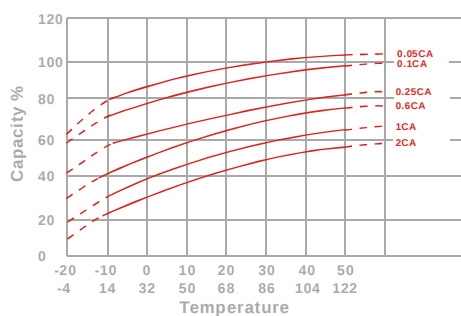


Dimensions

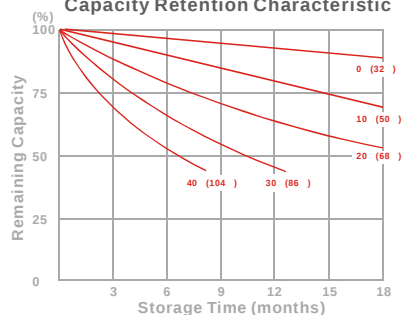
mm(inch)



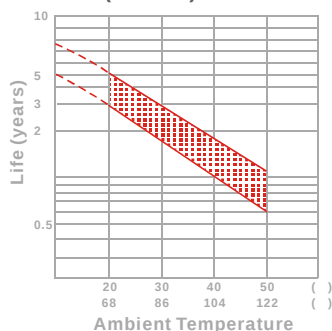
Effect of Temperature on Capacity 25 (77 °F)



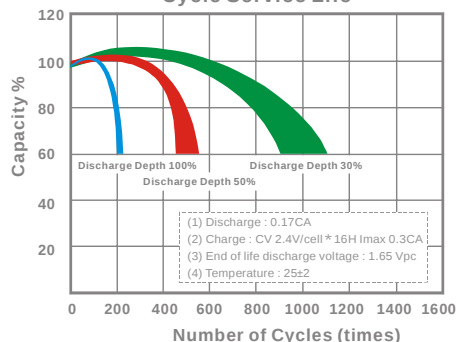
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	1399	1683	1884	2014	2048	2085	2122
10	min	890	1071	1199	1281	1303	1327	1350
15	min	694	816	901	955	969	985	1001
30	min	372	438	483	512	519	528	537
60	min	293	311	321	329	332	336	338
120	min	154	164	169	174	175	177	178
180	min	123	131	135	138	139	141	142
240	min	98.4	104	108	111	112	113	114
300	min	84.0	89.1	92.2	94.4	95.3	96.3	97.1
600	min	49.4	52.4	54.2	55.6	56.1	56.6	57.1
1200	min	26.0	27.6	28.6	29.3	29.6	29.9	30.1

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	127	153	171	183	186	190	193
10	min	79.5	95.6	107	114	116	118	121
15	min	60.3	71.0	78.3	83.1	84.2	85.6	87.0
30	min	31.7	37.3	41.1	43.6	44.2	45.0	45.7
60	min	24.6	26.1	27.0	27.7	27.9	28.2	28.4
120	min	12.9	13.7	14.2	14.6	14.7	14.8	14.9
180	min	10.3	10.9	11.3	11.5	11.6	11.8	11.9
240	min	8.20	8.70	9.00	9.22	9.31	9.40	9.48
300	min	6.97	7.40	7.65	7.84	7.91	7.99	8.06
600	min	4.10	4.35	4.50	4.61	4.65	4.70	4.74
1200	min	2.15	2.28	2.36	2.42	2.44	2.47	2.49

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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