

12Volt - 100Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(10A	to	10.80V)	100Ah
5 hour rate	(17A	to	10.20V)	85Ah
1 hour rate	(60A	to	9.60V)	60Ah
1 C	(100A	to	9.60V)	63.33Ah

Weight Approx. 30.5kg(67.1Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for 5 seconds: **1200A**

Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	30A
Standby use:	
Float Charging Voltage	13.50 to 13.80V
Coefficient	-3.0mV/°C/cell

Design Life **12 years**

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	98%
3 month	94%
6 month	85%

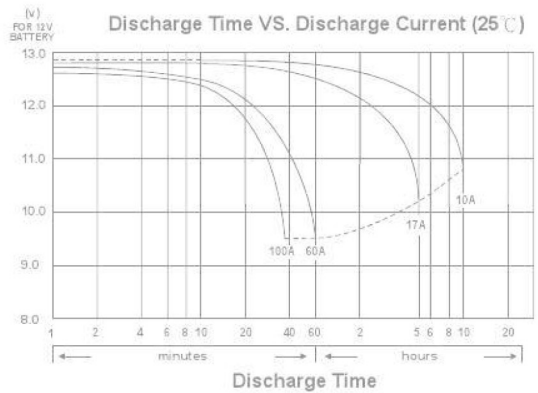
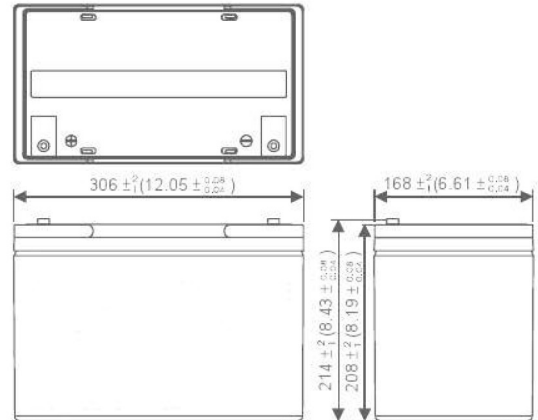
Case Material **ABS**
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F8**

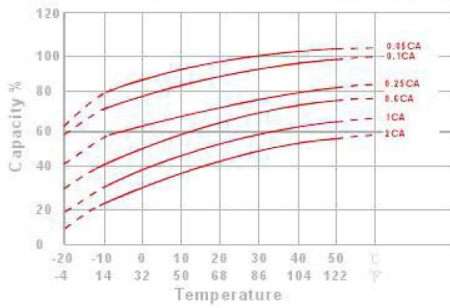
Description of torque value of hard ware for the terminals:
Recommended torque value **M6: 5.39 N-m (55kg-cm)**
Maximum allowable torque value **M6: 8.82 N-m (90kg-cm)**



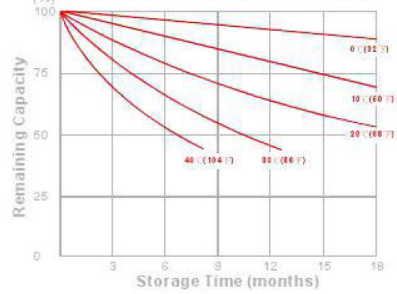
Dimensions mm(inch)



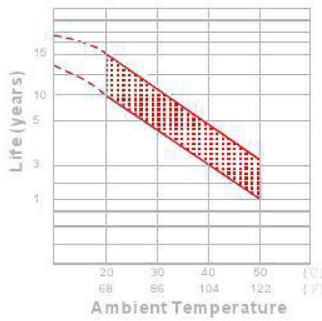
Effect of Temperature on Capacity 25°C (77°F)



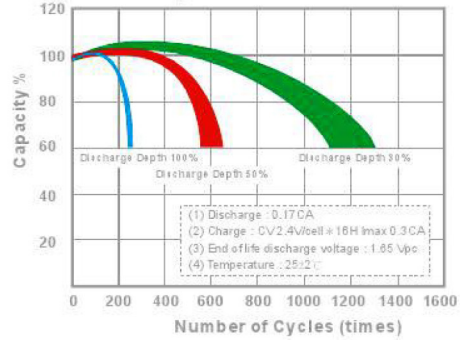
Capacity Retention Characteristic



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	min	2749	3071	3292	3503	3600	3702	3894
5	min	2087	2281	2440	2592	2657	2731	2862
10	min	1660	1807	1919	2027	2075	2126	2217
15	min	977	1041	1095	1146	1167	1194	1236
30	min	669	696	714	731	738	747	758
60	min	398	417	432	441	447	454	463
120	min	283	298	311	313	318	324	331
180	min	211	224	236	248	252	257	263
240	min	188	197	205	211	213	216	220
300	min	108	115	120	125	127	129	131
600	min	62.1	64.3	66.0	67.2	67.7	68.3	69.1
1200	min							

- 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	min	202	267	305	336	346	358	375
5	min	159	188	209	226	234	243	257
10	min	119	146	165	179	184	190	198
15	min	71.2	83.7	92.1	101	103	106	111
30	min	43.6	50.8	56.5	60.6	61.5	63.0	64.9
60	min	25.8	29.3	32.5	35.6	36.4	37.3	38.5
120	min	22.6	23.7	24.8	25.7	26.1	26.5	27.2
180	min	18.3	19.1	19.8	20.5	20.8	21.1	21.6
240	min	16.1	16.7	17.2	17.6	17.8	17.9	18.1
300	min	9.71	10.0	10.2	10.4	10.5	10.6	10.7
600	min	5.09	5.26	5.38	5.48	5.53	5.57	5.64
1200	min							

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%)