

12SB34C (12V 34Ah)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (1.70A to 10.50V)	34Ah
10 hour rate (3.23A to 10.50V)	32.3Ah
5 hour rate (5.78A to 10.20V)	28.9Ah
1C (34A to 9.60V)	19.27Ah
3C (102A to 9.60V)	13.6Ah

Weight Approx. 10.5kg (23.1lbs)

Internal Resistance (@1kHz) Approx. 11mΩ

Maximum Discharge Current

For 5 seconds 510A

Charging Methods @25°C (77°F)

Cycle Use:

Charging Voltage	14.4V to 15.0V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	10.2A

Standby Use:

Float Charging Voltage	13.50V to 13.80V
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) @20°C (68°F)

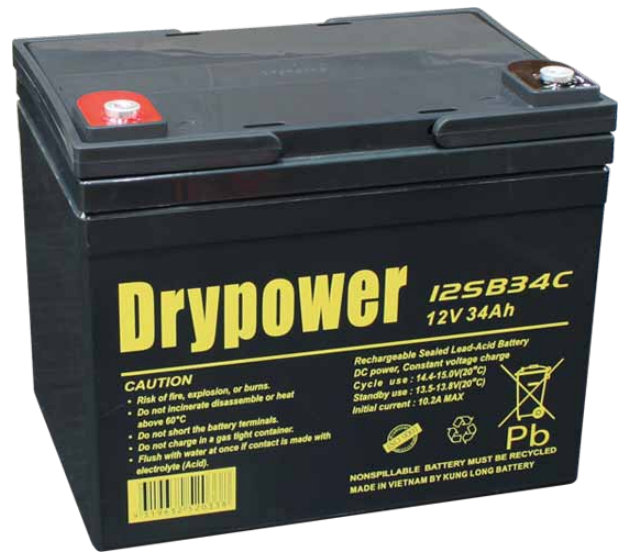
1 month	92%
3 months	90%
6 months	80%

Case Material ABS

Terminal F6

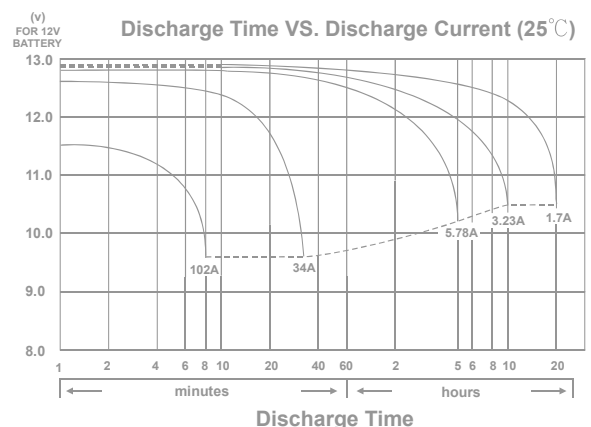
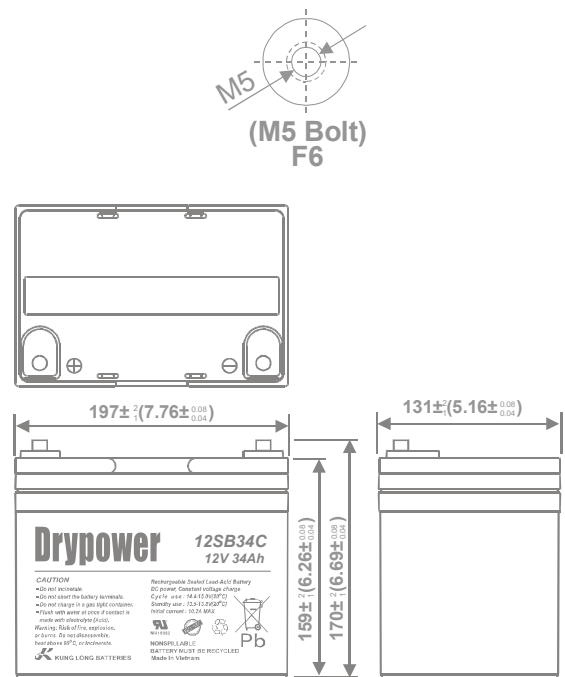
Description of Torque Value of Hard Ware for the Terminals

Recommended Torque Value	M5: 2.94 N-m (30kg-cm)
Max. Allowable Torque Value	M5: 4.90 N-m (50kg-cm)

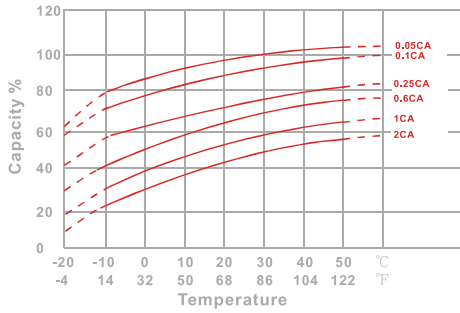


DIMENSIONS

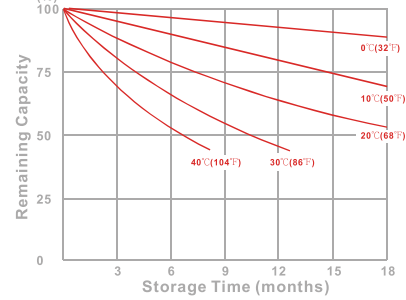
mm (inch)



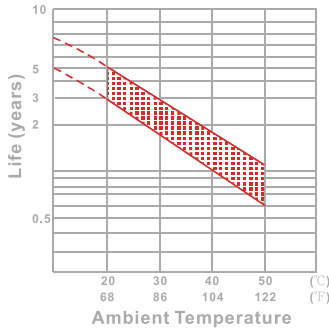
Effect of Temperature on Capacity 25°C(77°F)



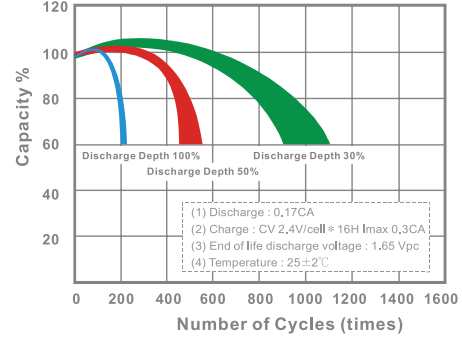
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	739	992	1182	1302	1344	1386	1442
10	min	521	682	804	880	906	934	969
15	min	422	546	638	695	713	735	762
30	min	229	297	347	378	388	400	414
60	min	217	231	240	245	247	250	252
120	min	136	143	147	150	151	153	154
180	min	92.1	97.8	102	104	105	106	107
240	min	74.0	78.6	81.6	83.4	84.3	85.1	85.8
300	min	63.1	67.1	69.6	71.2	71.8	72.6	73.2
600	min	37.3	39.7	41.2	42.1	42.5	42.9	43.3
1200	min	19.6	20.8	21.6	22.1	22.3	22.5	22.7

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	88.7	109	123	132	135	139	143
10	min	61.5	71.4	77.5	81.8	83.7	86.2	89.3
15	min	51.2	58.6	63.4	66.1	66.9	67.8	69.2
30	min	29.6	33.5	35.1	36.4	36.8	37.3	37.9
60	min	17.7	19.0	19.9	20.6	20.8	21.1	21.4
120	min	10.6	11.4	11.9	12.3	12.4	12.6	12.8
180	min	7.86	8.37	8.73	8.99	9.06	9.14	9.27
240	min	5.91	6.35	6.73	6.92	6.97	7.04	7.15
300	min	5.31	5.59	5.75	5.88	5.93	5.99	6.07
600	min	3.10	3.22	3.32	3.41	3.44	3.47	3.51
1200	min	1.58	1.67	1.73	1.77	1.78	1.80	1.82

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%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.