

12SB30P 12Volt 30Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(1.5A to 10.50V)	30Ah
10 hour rate	(2.85A to 10.50V)	28.5Ah
5 hour rate	(5.1A to 10.20V)	25.5Ah
1 C	(30A to 9.60V)	17.0Ah
3 C	(90A to 9.60V)	12.0Ah

Weight **Approx. 10.1kg(22.2Lbs.)**

Internal Resistance (at 1KHz) **Approx. 9 mΩ**

Maximum Discharge Current for

5 seconds: **600A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **9A**

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%**

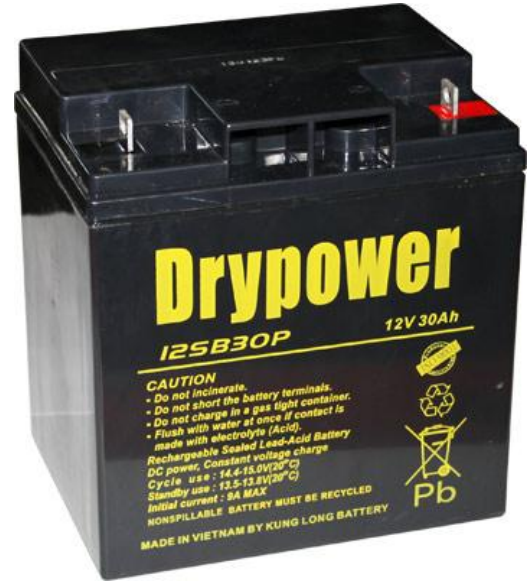
3 month **90%**

6 month **80%**

Case Material **ABS**

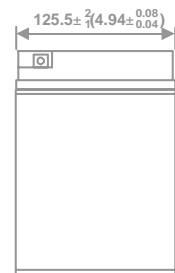
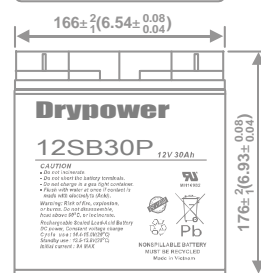
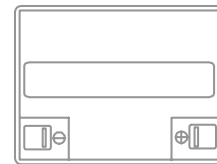
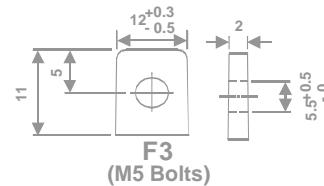
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F3**

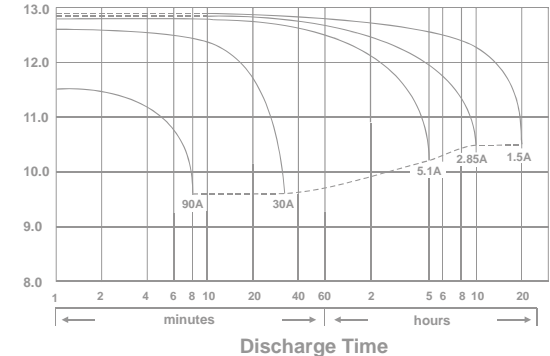


Dimensions

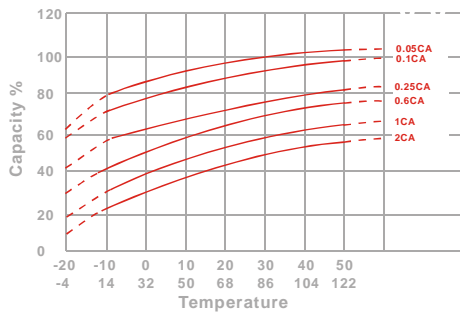
mm(inch)



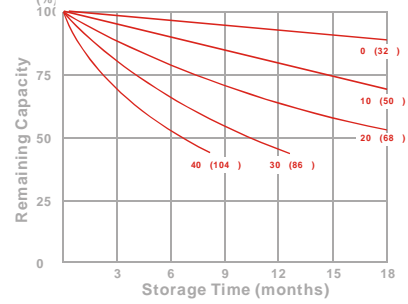
(v) Discharge Time VS. Discharge Current (25)



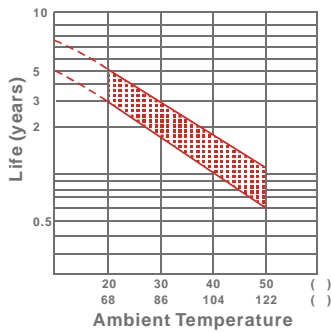
Effect of Temperature on Capacity 25°C (77°F)



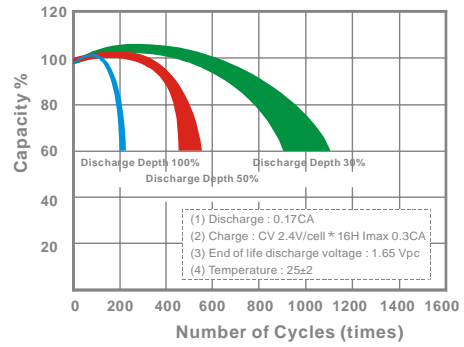
Capacity Retention Characteristic



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
5	min	843	1064	1188	1257	1280	1302	1331
10	min	646	743	808	855	879	895	919
15	min	566	631	660	687	694	702	715
30	min	350	378	390	399	401	404	408
60	min	206	222	231	237	239	242	245
120	min	122	130	135	139	140	142	144
180	min	92.7	96.3	98.5	100	101	102	103
240	min	76.2	79.5	80.8	81.9	82.4	82.9	83.8
300	min	62.5	65.4	66.6	72.9	67.8	68.3	69.0
600	min	34.8	36.1	37.0	37.8	38.0	38.3	38.7
1200	min	18.8	19.5	20.0	20.3	20.4	20.6	20.8

- 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
5	min	75.3	96.7	110	118	121	124	128
10	min	56.4	65.5	71.8	77.0	78.8	81.0	83.4
15	min	48.6	54.4	57.1	59.7	60.6	61.4	62.7
30	min	29.3	31.8	32.9	33.8	34.1	34.5	34.9
60	min	16.9	18.3	19.2	19.8	20.0	20.2	20.4
120	min	10.4	10.9	11.3	11.6	11.7	11.8	11.9
180	min	7.51	7.83	8.04	8.21	8.28	8.35	8.46
240	min	6.12	6.41	6.54	6.66	6.70	6.74	6.81
300	min	5.09	5.34	5.46	5.55	5.59	5.63	5.68
600	min	2.81	2.92	3.00	3.06	3.08	3.11	3.14
1200	min	1.52	1.57	1.61	1.64	1.65	1.67	1.69

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%)