

12SB30P (12V 30Ah)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (1.50A to 10.50V)	30Ah
10 hour rate (2.85A to 10.50V)	28.5Ah
5 hour rate (5.10A to 10.20V)	25.5Ah
1C (30 to 9.60V)	17Ah
3C (90A to 9.60V)	12Ah

Weight Approx. 10.1kg (22.26lbs)

Internal Resistance (@1kHz) Approx. 9mΩ

Maximum Discharge Current For 5 seconds 600A

Charging Methods @25°C (77°F)

Cycle Use:
 Charging Voltage 14.4V to 15.0V
 Coefficient -5.0mV/°C/Cell
 Maximum Charging Current 9A

Standby Use:
 Float Charging Voltage 13.50V to 13.80V
 Coefficient -3.0mV/°C/Cell

Operating Temperature Range

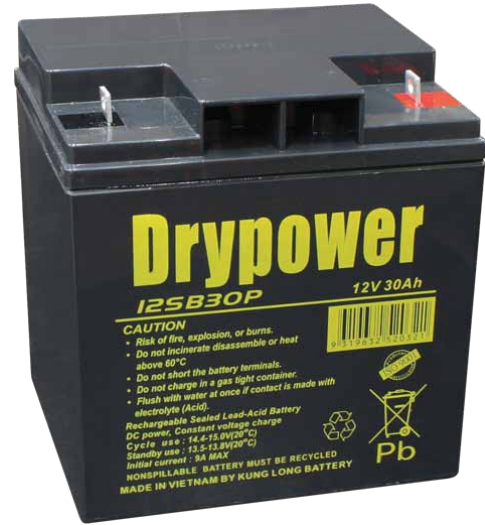
Charge	-15°C (5°F)	to	+40°C (104°F)
Discharge	-15°C (5°F)	to	+50°C (122°F)
Storage	-15°C (5°F)	to	+40°C (104°F)

Charge Retention (Shelf Life) @20°C (68°F)

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

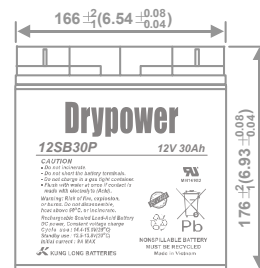
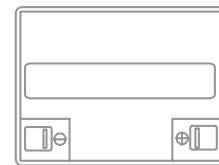
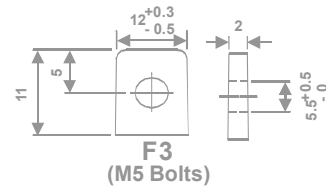
Case Material ABS

Terminal F3

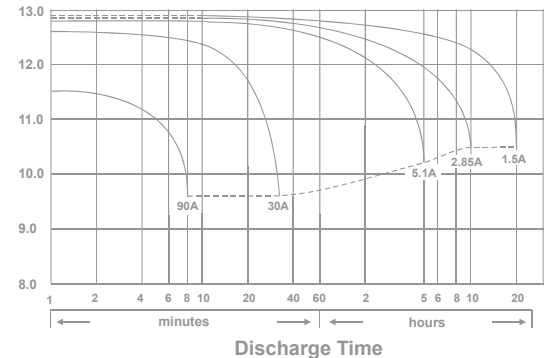


DIMENSIONS

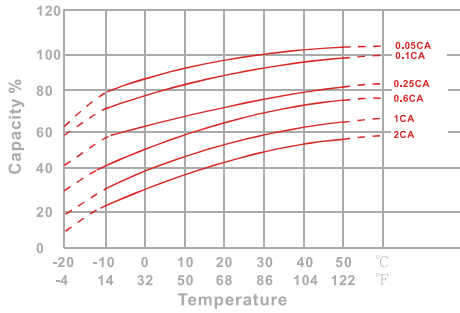
mm (inch)



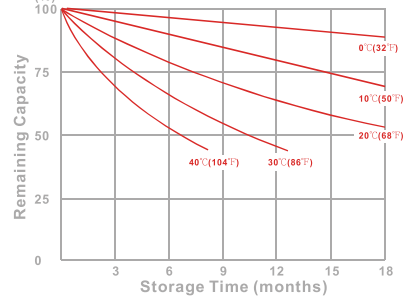
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



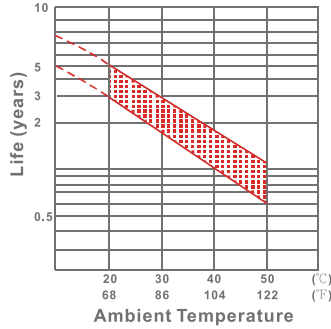
Effect of Temperature on Capacity 25°C(77°F)



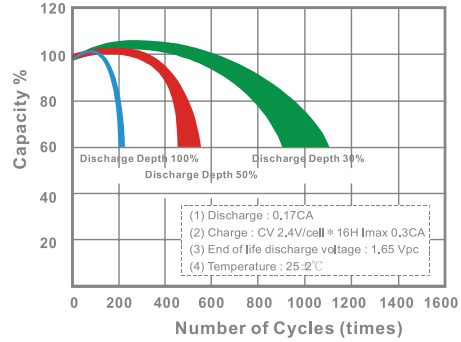
Capacity Retention Characteristic



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	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)

Time	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 : $X < 6\text{min}$ (+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.