

### 12SB0.8P (12V 0.8Ah)

#### SPECIFICATIONS

Nominal Voltage (V) 12V

#### Nominal Capacity

20 hour rate (0.040A to 10.50V)	0.8Ah
10 hour rate (0.067A to 10.50V)	0.665Ah
5 hour rate (0.119A to 10.20V)	0.595Ah
1C (0.7A to 9.60V)	0.397Ah
3C (2.1A to 9.60V)	0.28Ah

Weight Approx. 400g (0.88lbs)

Internal Resistance (@1kHz) Approx. 125mΩ

Maximum Discharge Current For 5 seconds 10.5A

#### Charging Methods @25°C (77°F)

**Cycle Use:**  
 Charging Voltage 14.4V to 15.0V  
 Coefficient -5.0mV/°C/Cell  
 Maximum Charging Current 0.21A

**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%

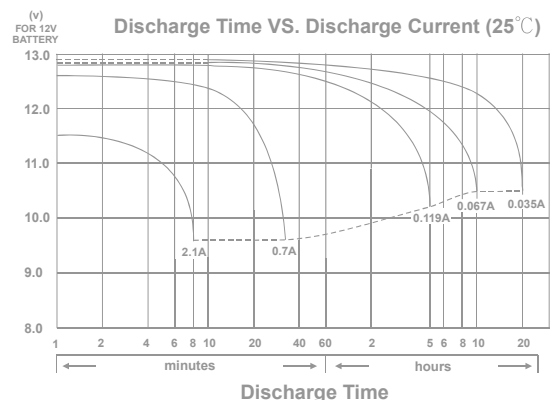
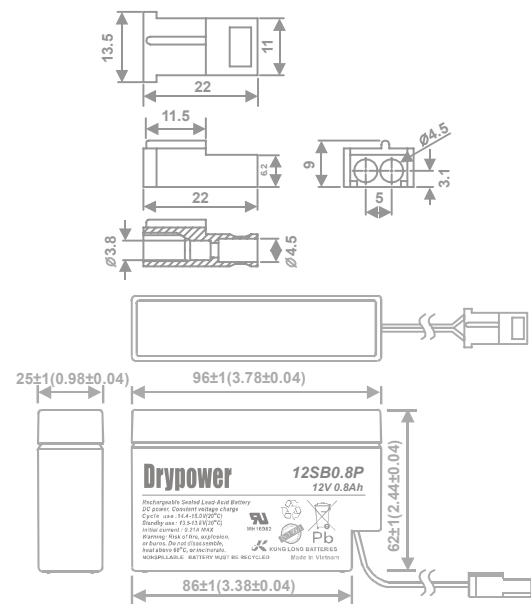
Case Material ABS

Terminal WIRE /A

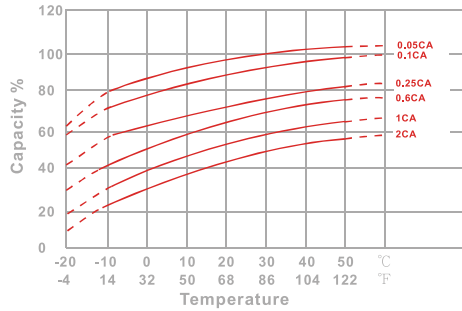


#### DIMENSIONS

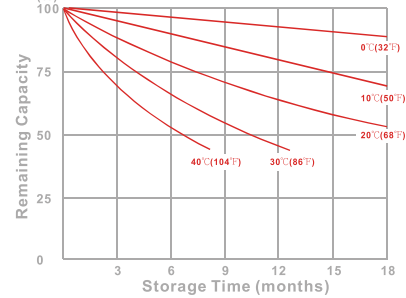
mm (inch)



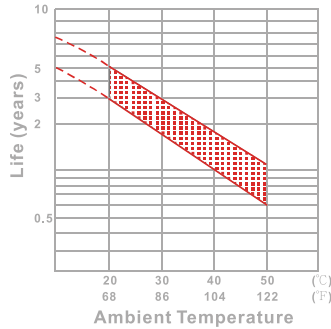
**Effect of Temperature on Capacity 25°C(77°F)**



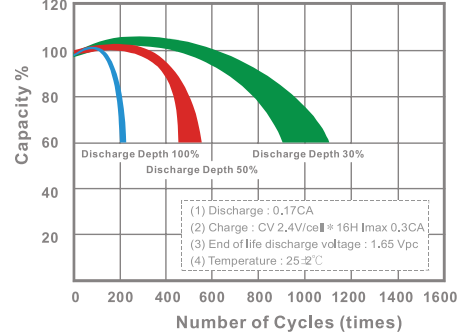
**Capacity Retention Characteristic**



**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
<b>Time</b>								
5	min	20.2	24.8	27.2	29.1	29.8	30.7	31.8
10	min	15.9	18.4	20.3	21.8	22.3	22.9	23.6
15	min	13.8	15.2	16.1	16.7	16.9	17.2	17.5
30	min	8.05	8.53	8.89	9.16	9.25	9.36	9.49
60	min	4.92	5.19	5.38	5.54	5.60	5.67	5.76
120	min	2.91	3.12	3.27	3.39	3.44	3.49	3.56
180	min	2.02	2.19	2.31	2.40	2.43	2.47	2.52
240	min	1.69	1.81	1.89	1.96	1.98	2.01	2.04
300	min	1.48	1.55	1.60	1.64	1.65	1.66	1.68
600	min	0.788	0.816	0.851	0.864	0.869	0.875	0.881
1200	min	0.420	0.432	0.441	0.448	0.450	0.452	0.455

**- 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
<b>Time</b>								
5	min	1.82	2.31	2.62	2.86	2.94	3.03	3.14
10	min	1.38	1.61	1.79	1.94	1.99	2.05	2.12
15	min	1.14	1.30	1.41	1.48	1.50	1.53	1.56
30	min	0.638	0.703	0.755	0.801	0.816	0.833	0.852
60	min	0.424	0.447	0.462	0.475	0.480	0.486	0.493
120	min	0.245	0.260	0.271	0.282	0.286	0.290	0.296
180	min	0.169	0.181	0.190	0.198	0.201	0.205	0.209
240	min	0.137	0.145	0.151	0.156	0.161	0.164	0.167
300	min	0.118	0.124	0.129	0.133	0.134	0.136	0.138
600	min	0.062	0.065	0.067	0.069	0.070	0.071	0.072
1200	min	0.0345	0.0352	0.0358	0.0363	0.0365	0.0368	0.0371

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.