

# DJW12-7 12Volt 7Ah

## Specifications

Nominal Voltage(V) **12V**

### Nominal Capacity

20 hour rate	(0.35A to 10.50V)	<b>7Ah</b>
10 hour rate	(0.665A to 10.50V)	<b>6.65Ah</b>
5 hour rate	(1.19A to 10.20V)	<b>5.95Ah</b>
1 C	(7A to 9.60V)	<b>3.73Ah</b>
3 C	(21A to 9.60V)	<b>2.45Ah</b>

Weight **Approx. 2.2kg(4.84Lbs.)**

Internal Resistance (at 1KHz) **Approx. 22 mΩ**

### Maximum Discharge Current for

5 seconds: **105A**

### Charging Methods at 25°C(77°F)

#### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/°C/cell

Maximum Charging Current : **2.1A**

#### Standby use:

Float Charging Voltage **13.50 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) at 20°C(68°F)

1 month	<b>92%</b>
3 month	<b>90%</b>
6 month	<b>80%</b>

Case Material **ABS**

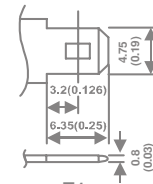
(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F1 (Faston Tab 187)**

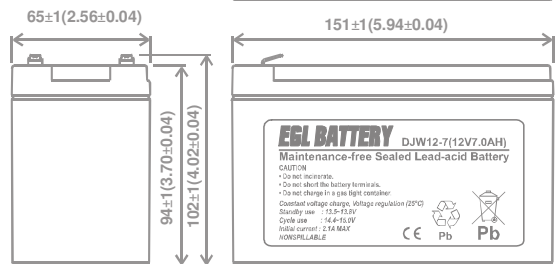


## Dimensions

mm(inch)

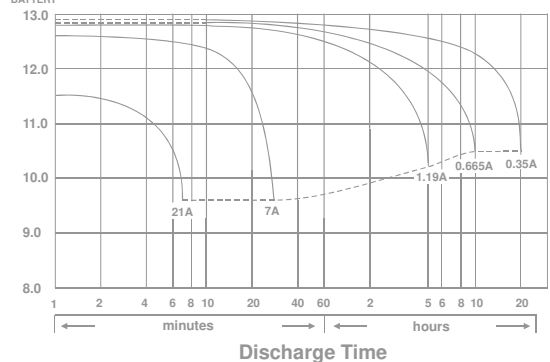


F1  
(Faston Tab 187)

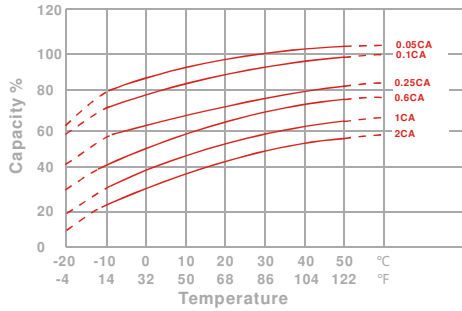


(V)  
FOR 12V  
BATTERY

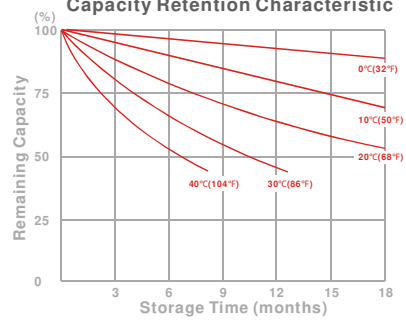
### Discharge Time VS. Discharge Current (25°C)



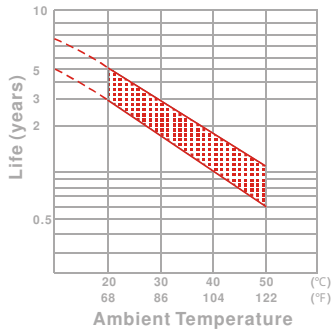
**Effect of Temperature on Capacity 25°C(77°F)**



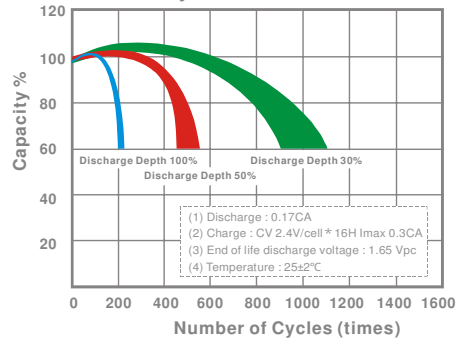
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



**- PERFORMANCE DATA**

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
<b>Time</b>								
5	min	226	244	259	271	277	282	290
10	min	160	171	179	186	189	192	197
15	min	125	136	143	146	149	150	152
30	min	39.2	74.1	76.8	79.1	79.9	80.7	81.9
60	min	40.7	44.8	47.2	48.6	49	49.5	50.2
120	min	21.5	23.6	24.9	25.7	25.8	26.1	26.5
180	min	17.1	18.8	19.8	20.4	20.6	20.8	21.1
240	min	14.3	15.2	15.9	16.4	16.5	16.7	16.9
300	min	13.1	13.6	13.9	14.1	14.2	14.3	14.4
600	min	7.92	8.09	8.24	8.36	8.41	8.45	8.51
1200	min	4.15	4.23	4.31	4.37	4.40	4.43	4.47

**- 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	20.7	23.1	24.7	25.5	25.8	26.1	26.4
10	min	13.8	15.4	16.5	17.1	17.2	17.4	17.6
15	min	10.7	11.8	12.6	13.0	13.1	13.2	13.3
30	min	5.62	6.22	6.60	6.82	6.87	6.94	7.02
60	min	3.52	3.76	3.99	4.11	4.15	4.21	4.27
120	min	1.85	1.94	2.02	2.09	2.12	2.16	2.21
180	min	1.46	1.57	1.64	1.70	1.72	1.75	1.79
240	min	1.26	1.31	1.35	1.38	1.39	1.41	1.43
300	min	1.11	1.16	1.21	1.23	1.24	1.25	1.27
600	min	0.688	0.695	0.702	0.707	0.710	0.713	0.717
1200	min	0.353	0.359	0.364	0.368	0.370	0.373	0.376

**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%)

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