

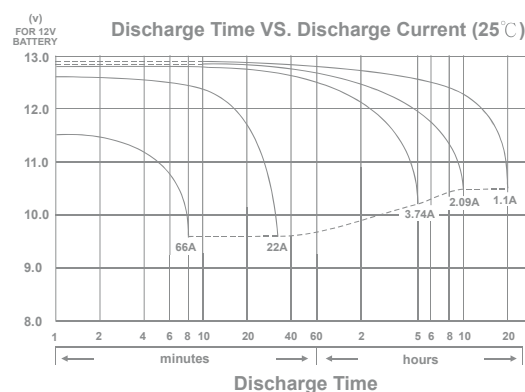
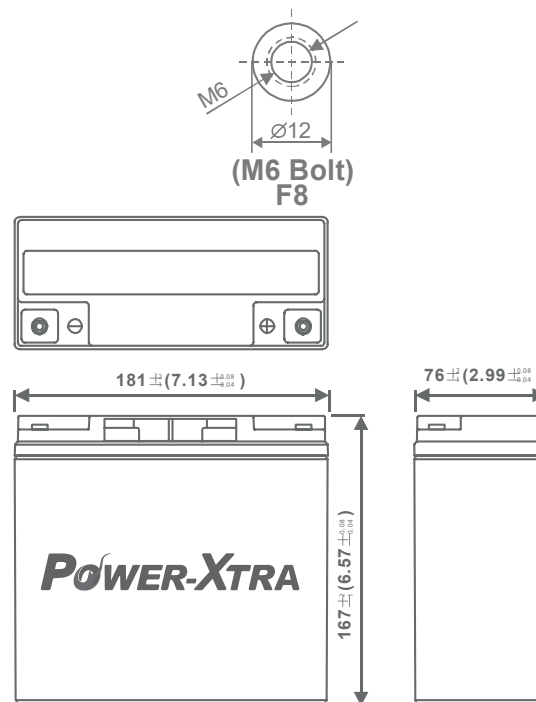
## PP22-12NE 12Volt 22Ah

### Specifications

<b>Nominal Voltage(V)</b>				<b>12V</b>
<b>Nominal Capacity</b>				
20 hour rate	(1.1A	to	10.50V)	<b>22Ah</b>
10 hour rate	(2.09A	to	10.50V)	<b>20.9Ah</b>
5 hour rate	(3.74A	to	10.20V)	<b>18.7Ah</b>
1 C	(22A	to	9.60V)	<b>12.47Ah</b>
3 C	(66A	to	9.60V)	<b>8.8Ah</b>
<b>Weight</b>	Approx. <b>6.9kg(15.18Lbs.)</b>			
<b>Internal Resistance (at 1KHz)</b>	Approx. <b>9 mΩ</b>			
<b>Maximum Discharge Current for 5 seconds:</b>				
				<b>330A</b>
<b>Charging Methods at 25°C(77°F)</b>				
<b>Cycle use:</b>				
Charging Voltage				<b>14.4 to 15.0V</b>
Coefficient	-5.0mV/°C/cell			
Maximum Charging Current :				<b>6.6A</b>
<b>Standby use:</b>				
Float Charging Voltage				<b>13.5 to 13.8V</b>
Coefficient	-3.0mV/°C/cell			
<b>Operating Temperature Range</b>				
Charge	<b>-15°C(5°F)</b>	to	<b>40°C(104°F)</b>	
Discharge	<b>-15°C(5°F)</b>	to	<b>50°C(122°F)</b>	
Storage	<b>-15°C(5°F)</b>	to	<b>40°C(104°F)</b>	
<b>Charge Retention (shelf life) at 20°C(68°F)</b>				
1 month				<b>92%</b>
3 month				<b>90%</b>
6 month				<b>80%</b>
<b>Case Material</b>	<b>ABS UL94 HB</b>			
Option: Flammability resistance of (UL94 V-0)				
<b>Terminal</b>				<b>F8</b>
<b>Description of torque value of hard ware for the terminals:</b>				
Recommended torque value	<b>M6: 7 N-m (71kgf-cm)</b>			
Maximum allowable torque value	<b>M6: 9 N-m (92kgf-cm)</b>			

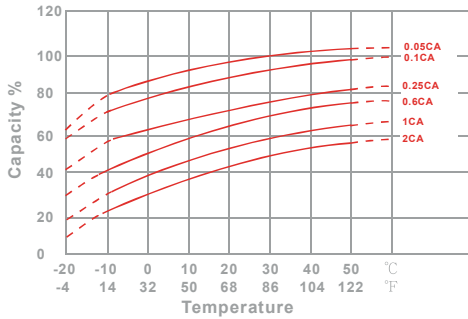
### Dimensions

mm(inch)

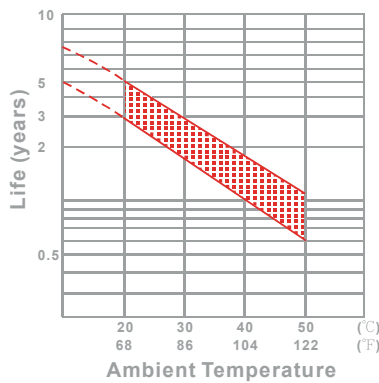


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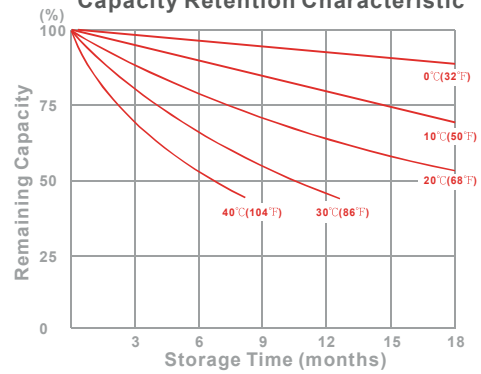
Effect of Temperature on Capacity 25°C(77°F)



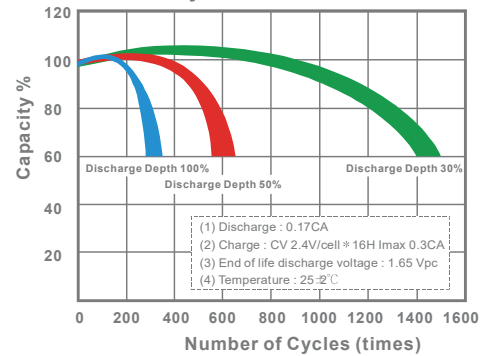
Trickle (or float) Service Life



Capacity Retention Characteristic



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
Time								
5	min	136	152	164	171	173	175	177
10	min	88.3	99.7	107	112	113	114	116
15	min	67.4	75.1	80.1	83.2	84.1	85.0	85.8
30	min	39.8	43.9	46.6	48.3	48.8	49.3	49.7
60	min	25.2	26.0	26.7	27.1	27.3	27.4	27.6
120	min	15.2	15.5	15.7	15.9	16.0	16.1	16.2
180	min	10.8	11.1	11.3	11.4	11.5	11.5	11.6
240	min	8.60	8.87	9.02	9.14	9.19	9.24	9.31
300	min	7.25	7.48	7.65	7.78	7.84	7.87	7.91
600	min	4.12	4.32	4.47	4.57	4.60	4.63	4.67
1200	min	2.20	2.28	2.35	2.41	2.42	2.44	2.45

### - 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
Time								
5	min	74.8	83.3	90.1	97.6	99.3	102	105
10	min	48.1	54.0	57.4	59.9	60.8	61.5	62.3
15	min	36.6	41.4	43.1	44.4	44.8	45.3	45.9
30	min	20.0	22.1	23.5	24.2	24.4	24.7	25.1
60	min	12.4	12.8	13.1	13.4	13.5	13.6	13.8
120	min	7.61	7.83	7.98	8.12	8.16	8.21	8.27
180	min	5.32	5.51	5.64	5.75	5.79	5.83	5.88
240	min	4.17	4.33	4.45	4.54	4.58	4.61	4.65
300	min	3.56	3.68	3.77	3.84	3.87	3.89	3.92
600	min	2.06	2.14	2.21	2.26	2.27	2.29	2.31
1200	min	1.07	1.12	1.16	1.19	1.20	1.21	1.22