



# PC690

**6.0 Volt 9.0 Ah**  
**Maintenance-Free / Rechargeable**  
**Sealed Lead-Acid Battery**

## Specifications

**Nominal Voltage(V)** **6V**

### Nominal Capacity

20 hour rate	(0.45A to 5.25V)	<b>9Ah</b>
10 hour rate	(0.855A to 5.25V)	<b>8.55Ah</b>
5 hour rate	(1.53A to 5.1V)	<b>7.65Ah</b>
1 C	(9A to 4.8V)	<b>5.1Ah</b>
3 C	(27A to 4.8V)	<b>3.6Ah</b>

**Weight** **Approx. 3.74Lbs. (1.7kg)**

**Internal Resistance (at 1KHz)** **Approx. 10 mΩ**

### Maximum Discharge Current for

**5 seconds:** **135A**

### Charging Methods at 77°F(25°C)

<b>Cycle use:</b>	
Charging Voltage	<b>7.20 to 7.50V</b>
Coefficient -5.0mv/°C/cell	
Maximum Charging Current :	<b>2.7A</b>
<b>Standby use:</b>	
Float Charging Voltage	<b>6.75 to 6.90V</b>
Coefficient -3.0mv/°C/cell	

### Operating Temperature Range

Charge	<b>5°F(-15°C)</b>	to	<b>104°F(40°C)</b>
Discharge	<b>5°F(-15°C)</b>	to	<b>122°F(50°C)</b>
Storage	<b>5°F(-15°C)</b>	to	<b>104°F(40°C)</b>

### Charge Retention (shelf life) at 68°F(20°C)

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

**Case Material** **ABS**

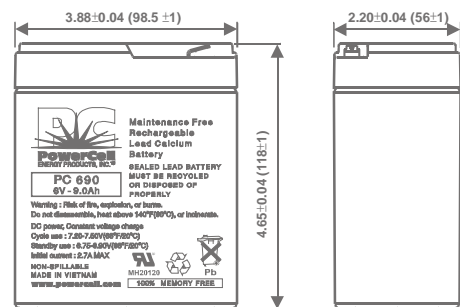
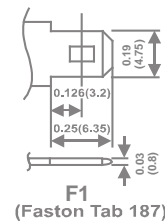
(UL94 HB)

**Terminal** **F1 (Faston Tab 187)**

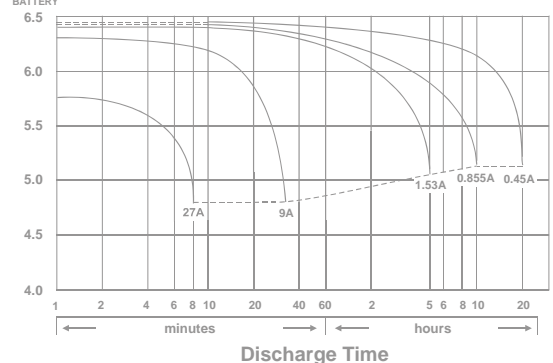


## Dimensions

**inch(mm)**



(V) FOR 6V BATTERY **Discharge Time VS. Discharge Current (77°F)**

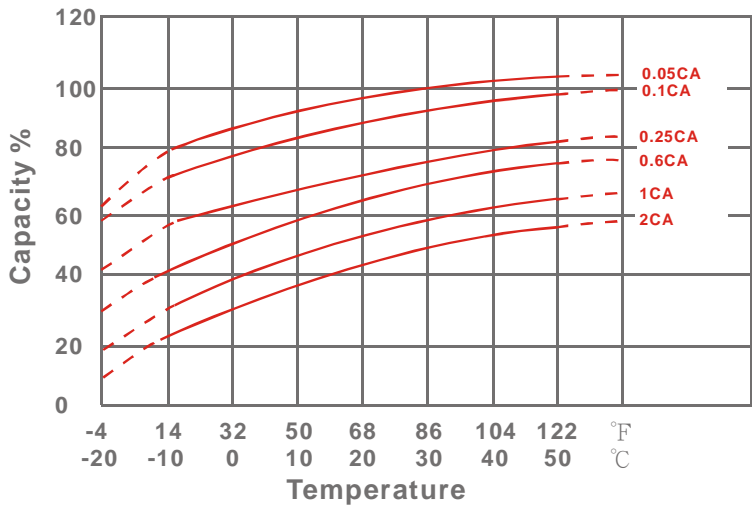




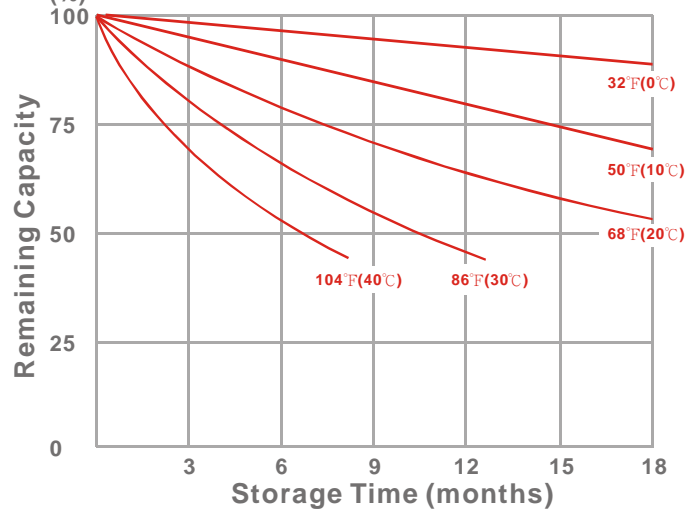
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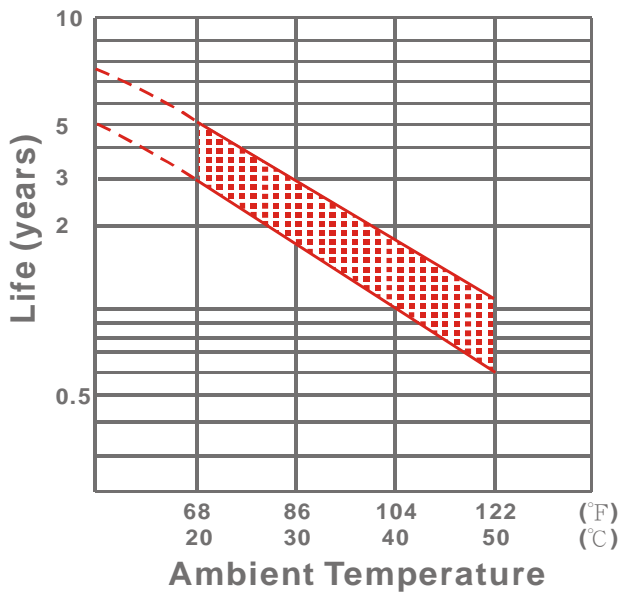
**Effect of Temperature on Capacity 77°F(25°C)**



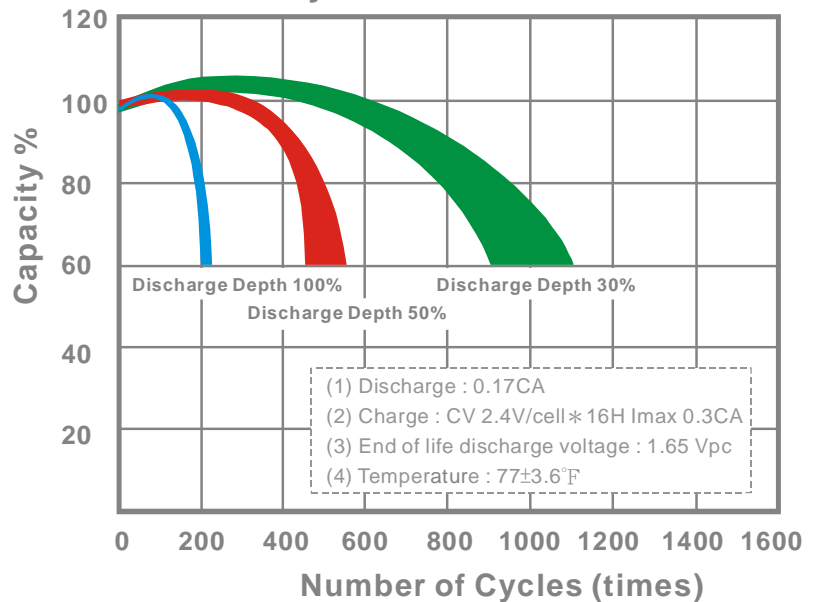
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**





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**- PERFORMANCE DATA**

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	144	163	178	191	196	202	212
10	min	102	114	123	130	133	137	142
15	min	86.4	89.6	92.8	96.3	98.2	101	104
30	min	43.3	45.7	47.9	50.1	50.5	50.9	54.2
60	min	28.7	30.4	31.3	32.2	32.6	33.0	33.6
120	min	20.2	21.4	22.0	22.4	22.5	22.6	22.8
180	min	12.9	13.7	14.2	14.6	14.7	15.0	15.3
240	min	10.3	10.7	11.0	11.3	11.5	11.7	11.9
300	min	9.02	9.31	9.51	9.65	9.70	9.80	9.90
600	min	5.07	5.28	5.39	5.50	5.55	5.60	5.67
1200	min	2.62	2.74	2.81	2.86	2.88	2.89	2.91

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.67V	1.65V
Time								
5	min	24.7	27.8	30.4	32.7	33.8	35.0	36.9
10	min	18.5	20.6	22.2	23.5	24.0	24.6	25.4
15	min	13.9	14.7	15.9	16.8	17.1	17.5	18.1
30	min	8.21	8.76	9.05	9.29	9.38	9.51	9.69
60	min	4.78	5.14	5.31	5.47	5.54	5.62	5.74
120	min	2.84	3.09	3.17	3.30	3.35	3.41	3.49
180	min	1.96	2.12	2.25	2.36	2.40	2.45	2.52
240	min	1.64	1.73	1.80	1.86	1.88	1.91	1.94
300	min	1.41	1.48	1.53	1.57	1.58	1.60	1.62
600	min	0.872	0.886	0.900	0.911	0.916	0.922	0.929
1200	min	0.435	0.450	0.459	0.464	0.467	0.470	0.474

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%)

**Features**

- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve-regulated, nonspillable construction allows for safe, maintenance-free operation.
- Excellent power/volume ratio yielding unrivaled energy density.
- Rugged, Impact-Resistant, ABS case and cover (UL94-HB)
- Approved for transport by air by: DOT., I.A.T.A., F.A.A. and C.A.B. Certified
- UL Recognized under file # MH20120