



PC645

6.0 Volt 4.5 Ah
Maintenance-Free / Rechargeable
Sealed Lead-Acid Battery

Specifications

Nominal Voltage(V) **6V**

Nominal Capacity

20 hour rate	(0.225A to 5.25V)	4.5Ah
10 hour rate	(0.428A to 5.25V)	4.275Ah
5 hour rate	(0.765A to 5.1V)	3.825Ah
1 C	(4.5A to 4.8V)	2.55Ah
3 C	(13.5A to 4.8V)	1.8Ah

Weight **Approx. 1.87Lbs. (850g)**

Internal Resistance (at 1KHz) **Approx. 20 mΩ**

Maximum Discharge Current for

5 seconds: **67.5A**

Charging Methods at 77°F(25°C)

Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient -5.0mv/°C/cell

Maximum Charging Current : **1.35A**

Standby use:

Float Charging Voltage **6.75 to 6.90V**

Coefficient -3.0mv/°C/cell

Operating Temperature Range

Charge **5°F(-15°C) to 104°F(40°C)**

Discharge **5°F(-15°C) to 122°F(50°C)**

Storage **5°F(-15°C) to 104°F(40°C)**

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

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

Case Material **ABS**

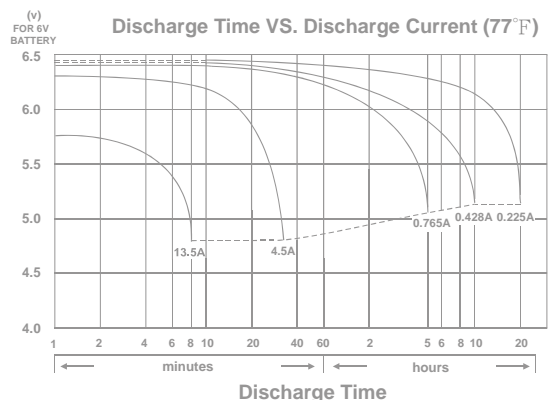
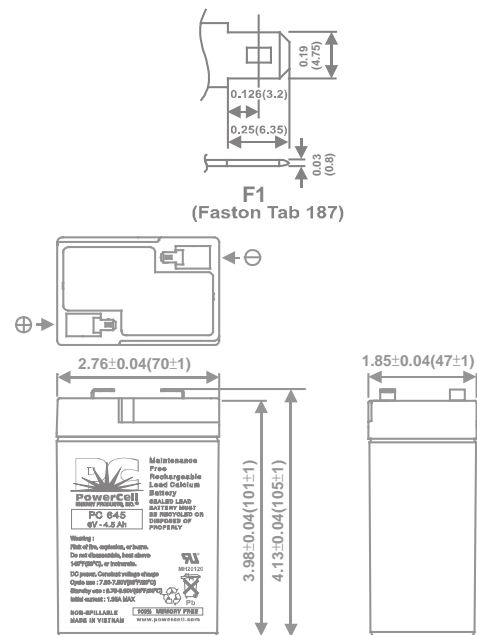
(UL94 HB)

Terminal **F1 (Faston Tab 187)**



Dimensions

inch(mm)

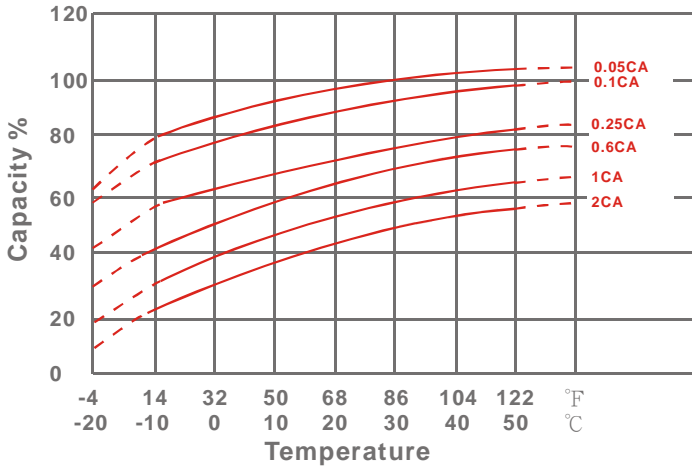




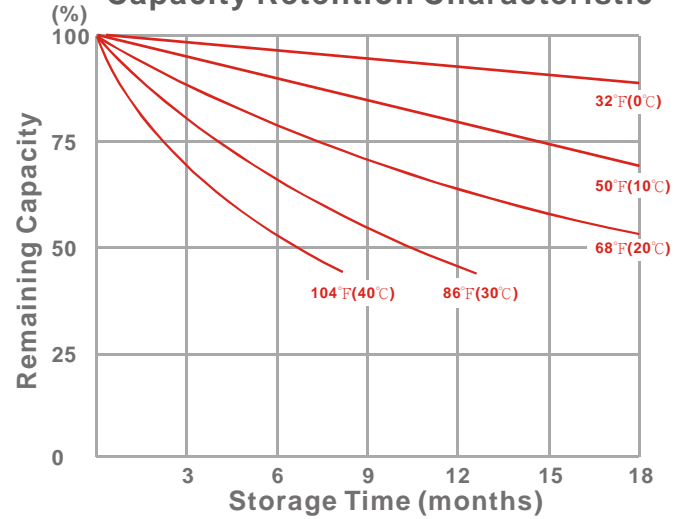
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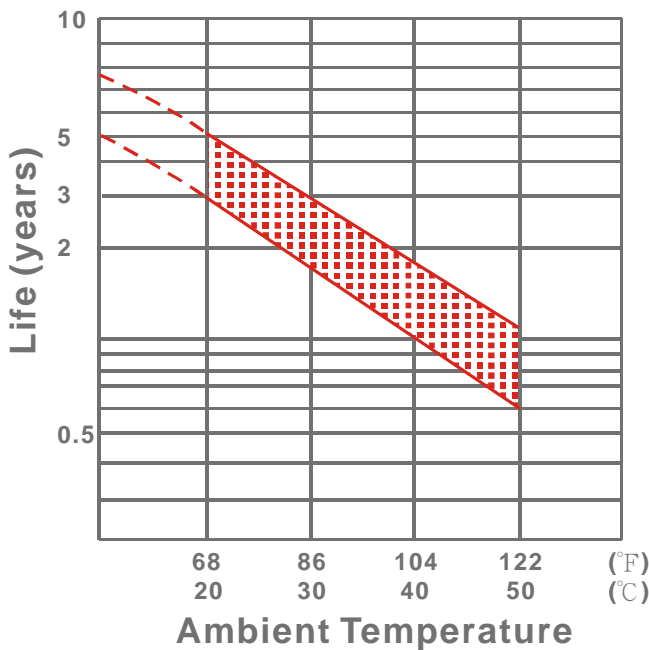
Effect of Temperature on Capacity 77°F(25°C)



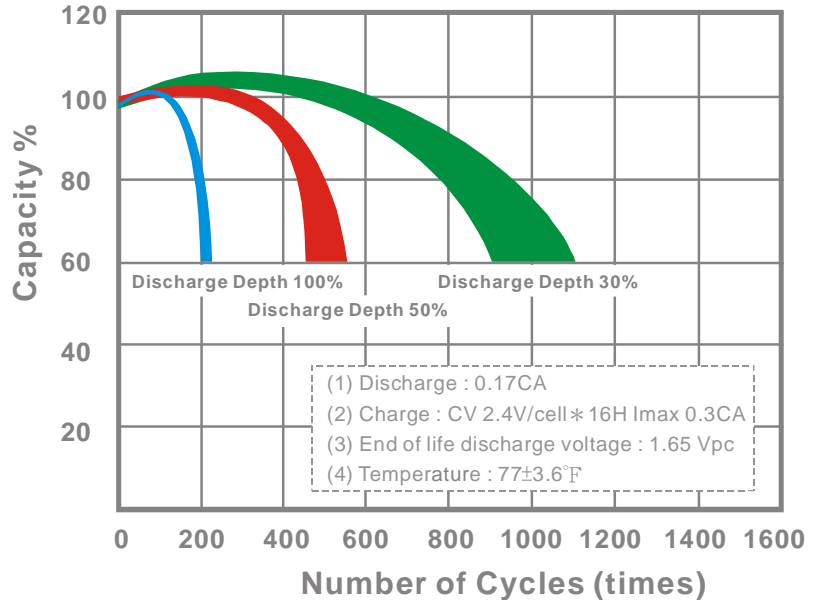
Capacity Retention Characteristic



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	71.5	80.5	87.0	93.0	95.5	98.5	102
10	min	51.0	57.5	61.5	64.5	66.0	67.5	69.0
15	min	42.3	46.7	48.6	49.6	50.0	50.5	51.0
30	min	24.6	27.5	28.6	29.1	29.4	29.8	30.1
60	min	12.6	14.3	15.4	16.3	16.6	17.0	17.2
120	min	7.45	8.30	8.70	9.00	9.15	9.35	9.55
180	min	5.90	6.50	6.80	7.05	7.15	7.30	7.45
240	min	4.80	5.20	5.40	5.55	5.65	5.75	5.85
300	min	4.38	4.68	4.81	4.91	4.96	5.05	5.15
600	min	2.57	2.74	2.82	2.88	2.91	2.94	2.98
1200	min	1.30	1.41	1.50	1.53	1.54	1.56	1.58

- 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	1.65V	1.60V
Time								
5	min	15.3	17.6	18.9	19.5	19.7	19.9	20.2
10	min	10.5	11.7	11.9	12.1	12.2	12.3	12.4
15	min	7.56	8.22	8.71	8.92	8.99	9.07	9.15
30	min	4.39	4.94	5.11	5.25	5.30	5.35	5.41
60	min	2.36	2.61	2.73	2.84	2.87	2.91	2.94
120	min	1.32	1.44	1.50	1.54	1.55	1.57	1.59
180	min	1.09	1.15	1.18	1.20	1.21	1.22	1.23
240	min	0.835	0.891	0.916	0.942	0.948	0.955	0.963
300	min	0.776	0.812	0.825	0.837	0.841	0.846	0.852
600	min	0.435	0.452	0.464	0.473	0.477	0.481	0.486
1200	min	0.219	0.233	0.241	0.247	0.250	0.253	0.257

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}(+15\% \sim -15\%)$, $6\text{min} \leq X < 10\text{min}(+12\% \sim -12\%)$, $10\text{min} \leq X < 60\text{min}(+8\% \sim -8\%)$, $X \geq 60\text{min}(+5\% \sim -5\%)$

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