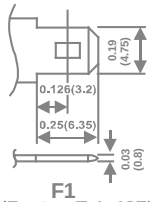
PC1230

12.0 Volt 3.0 Ah
Maintenance-Free / Rechargeable
Sealed Lead-Acid Battery

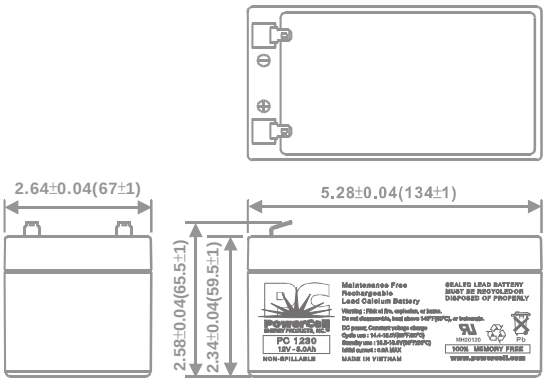
Specifications

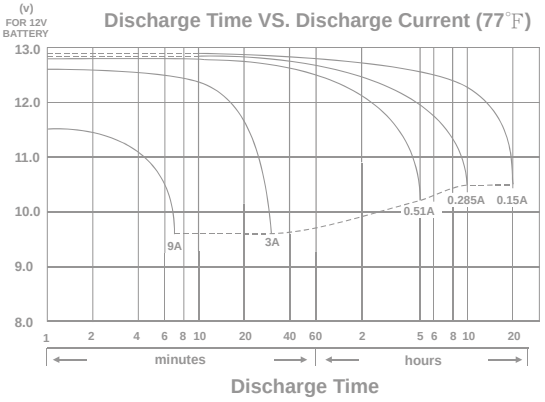
Nominal Voltage(V)	**12V**
Nominal Capacity	
20 hour rate (0.15A to 10.50V)	**3Ah**
10 hour rate (0.285A to 10.50V)	**2.85Ah**
5 hour rate (0.51A to 10.20V)	**2.55Ah**
1 C (3A to 9.60V)	**1.6Ah**
3 C (9A to 9.60V)	**1.05Ah**
Weight	Approx. **2.86Lbs. (1.3kg)**
Internal Resistance (at 1KHz)	Approx. **45 mΩ**
Maximum Discharge Current for	
5 seconds:	**45A**
Charging Methods at 77℉(25℃)	
Cycle use:	
Charging Voltage	**14.4 to 15.0V**
Coefficient -5.0mv/℃/cell	
Maximum Charging Current：	**0.9A**
Standby use:	
Float Charging Voltage	**13.50 to 13.80V**
Coefficient -3.0mv/℃/cell	
Operating Temperature Range	
Charge	5℉(-15℃) to 104℉(40℃)
Discharge	5℉(-15℃) to 122℉(50℃)
Storage	5℉(-15℃) to 104℉(40℃)
Charge Retention (shelf life) at 68℉(20℃)	
1 month	92%
3 month	90%
6 month	80%
Case Material	**ABS**
(UL94 HB)	
Terminal	**F1 (Faston Tab 187)**

Dimensions inch(mm)



F1
(Faston Tab 187)





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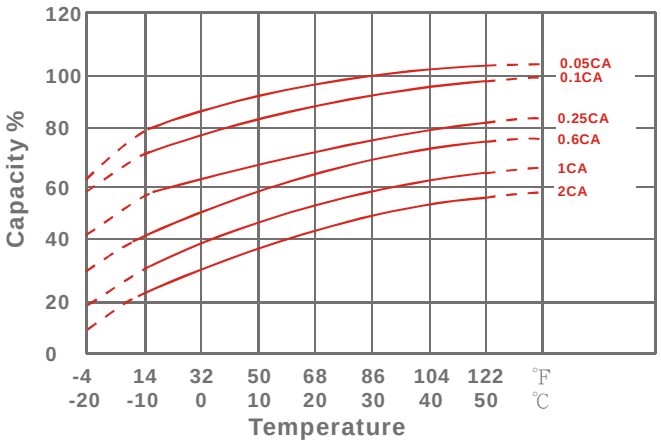
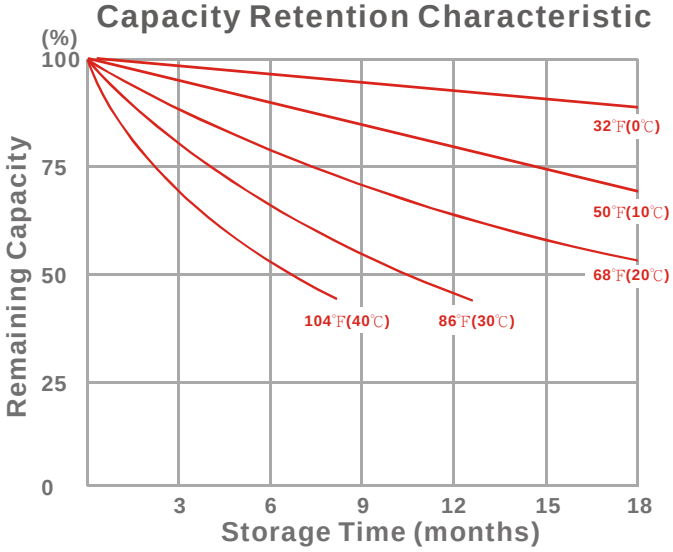
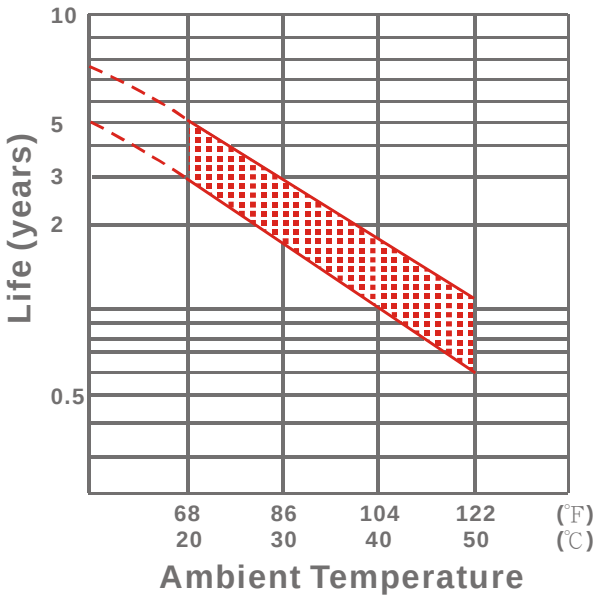
Effect of Temperature on Capacity 77℉(25℃)



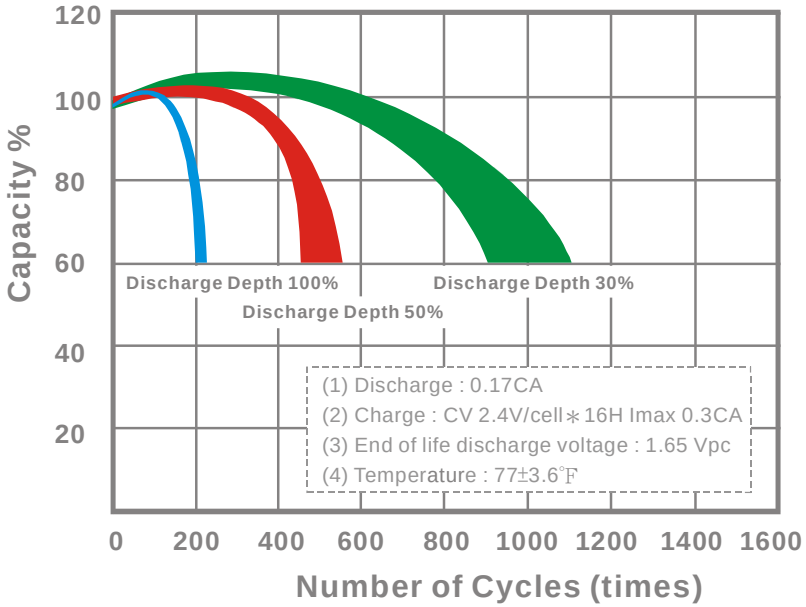
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



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- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 77℉(25℃)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	89.2	101	109	116	120	123	127
10	min	68.1	74.7	80.1	84.1	86.2	87.9	90.0
15	min	51.8	57.6	60.5	63.7	65.3	67.0	69.1
30	min	30.2	33.1	34.9	37.1	37.9	38.6	39.2
60	min	17.3	19.2	20.6	21.8	22.4	22.8	23.3
120	min	10.2	11.1	11.9	12.7	13.1	13.5	14.1
180	min	7.62	8.73	9.34	9.76	9.94	10.2	10.6
240	min	5.81	6.53	7.02	7.26	7.39	7.61	7.95
300	min	4.94	5.55	5.97	6.17	6.28	6.41	6.62
600	min	3.28	3.49	3.58	3.65	3.69	3.72	3.77
1200	min	1.79	1.85	1.90	1.92	1.93	1.95	1.98

- Discharge Rates in Amperes to Various End Voltages at 77℉(25℃)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	7.95	9.24	10.3	11.1	11.5	12.0	12.6
10	min	5.87	6.52	7.07	7.46	7.62	7.79	8.08
15	min	4.49	5.03	5.37	5.71	5.86	6.02	6.23
30	min	2.56	2.87	3.03	3.10	3.12	3.14	3.17
60	min	1.54	1.72	1.81	1.88	1.92	1.94	1.99
120	min	0.945	0.993	1.04	1.08	1.10	1.12	1.15
180	min	0.679	0.718	0.752	0.786	0.807	0.826	0.861
240	min	0.556	0.581	0.604	0.625	0.634	0.646	0.663
300	min	0.472	0.493	0.511	0.526	0.533	0.542	0.554
600	min	0.273	0.289	0.301	0.306	0.308	0.311	0.313
1200	min	0.147	0.154	0.158	0.161	0.163	0.165	0.167

All data on the spec. sheet is an average value:
The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

FEATURES

- **Absorbent Glass Mat (AGM) technology for superior performance.**
- **Valve-regulated, nonspillable constructionallows 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**