AVACOM
BATTERIES
& CHARGERS

Valve Regulated Lead Acid Battery

PBAV-12V075-M6AD

8591849095781

SPECIFICATIONS

Deep Cycle Series

Nominal Voltage(V)		
12V		

Nominal Capacity		
10 hour rate	(7.5A to 10.80V)	75Ah
5 hour rate	(12.75A to 10.20V)	63.75Ah
1 hour rate	(45A to 9.60V)	45Ah
1 C	(75A to 9.60V)	47.5Ah

Weight

Approx. 24.4kg

Internal Resistance (at 1KHz)

Approx. 5.5 mΩ

Maximum Discharge Current for

5 seconds: 900A

Charging Methods at 25°C	
Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/°C/cell	
Maximum Charging Current:	22.5A
Standby use:	
Float Charging Voltage	13.5 to 13.8V
Coefficient -3.0mV/°C/cell	

Operating Temperature Range	
Charge	-15°C to 40°C
Discharge	-15°C to 50°C
Storage	-15°C to 40°C

Charge Retention (shelf life) at 20°C	
1 month	98%
3 month	94%
6 month	85%

Case Material

ABS UL94 HB

Design Life

3-5 Years.

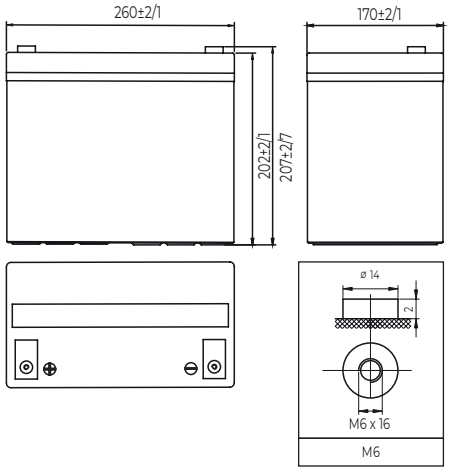
Terminal

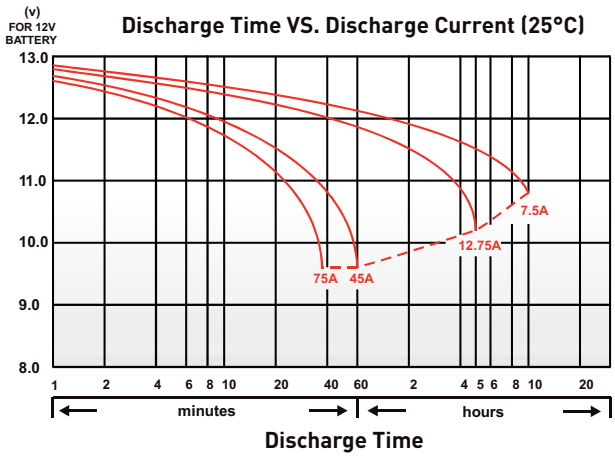
F8



DIMENSIONS

Length (L)	260±2 1 mm
Width (W)	170±2 1 mm
Height (H)	202±2 1 mm
Overall Height (HT)	207±2 1 mm





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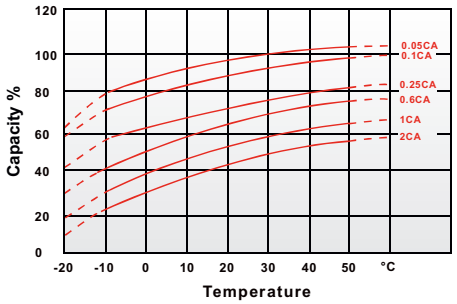
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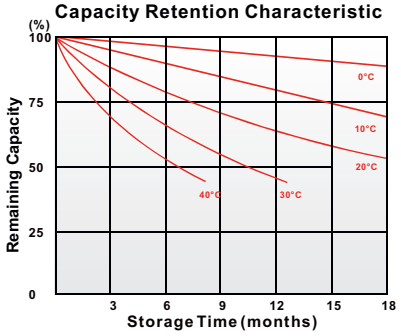
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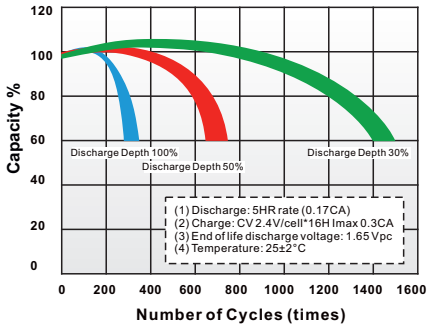
Effect of Temperature on Capacity 25°C



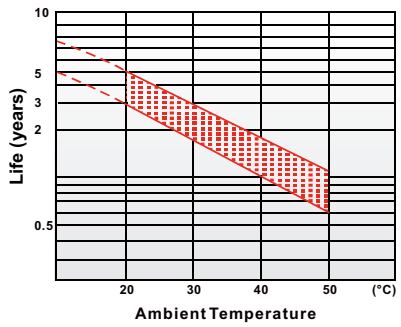
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	390	412	472	500	515	530	544
10	min	267	282	323	343	353	363	373
15	min	174	221	235	269	274	281	288
30	min	136	146	152	156	157	159	162
60	min	80.8	85.3	87.8	89.8	90.5	91.3	92.3
120	min	47.2	49.8	51.3	52.7	53.2	53.7	54.3
180	min	34.0	35.8	36.8	37.7	38.0	38.3	38.8
240	min	27.8	28.8	29.7	30.3	30.5	30.8	31.2
300	min	24.8	25.3	25.7	26.0	26.2	26.3	26.5
600	min	15.0	15.2	15.3	15.5	15.5	15.6	15.6
1200	min	7.85	7.97	8.07	8.15	8.20	8.23	8.28

Discharge Rates in Amperes to Various End Voltages at 25°C

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	171	205	235	261	269	280	292
10	min	108	137	160	179	184	191	199
15	min	88.7	107	122	135	138	142	147
30	min	61.9	71.1	77.8	82.8	83.9	85.5	87.2
60	min	38.6	41.5	43.3	44.8	45.3	45.9	46.7
120	min	20.2	22.4	23.9	25.0	25.4	25.8	26.3
180	min	15.8	17.4	18.4	19.3	19.6	20.0	20.4
240	min	12.9	13.9	14.7	15.3	15.6	15.9	16.2
300	min	11.8	12.6	13.1	13.4	13.6	13.8	14.1
600	min	7.53	7.62	7.69	7.74	7.76	7.81	7.85
1200	min	3.87	3.93	3.98	4.02	4.03	4.05	4.08

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