AVACOM
BATTERIES & CHARGERS

Valve Regulated Lead Acid Battery

PBAV-12V020-M5AD

8591849088516

SPECIFICATIONS

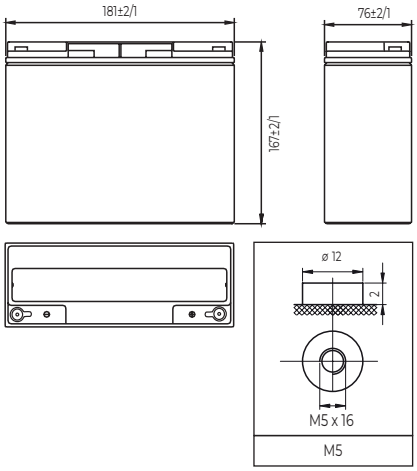
Deep Cycle Series

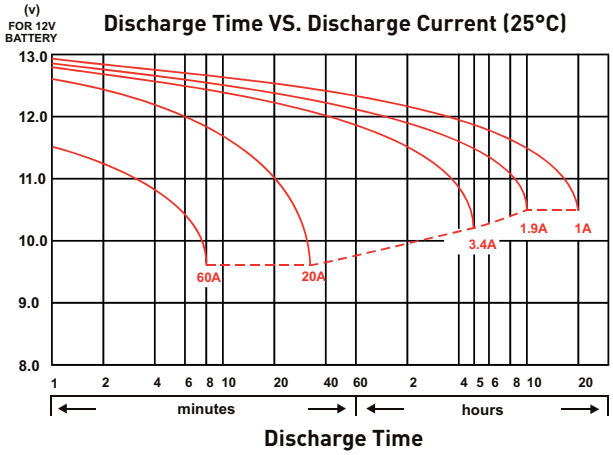
Nominal Voltage(V)		
12V		
Nominal Capacity		
20 hour rate	(1A to 10.50V)	20Ah
10 hour rate	(1.9A to 10.50V)	19Ah
5 hour rate	(3.4A to 10.20V)	17Ah
1 C	(20A to 9.60V)	11.33Ah
3 C	(60A to 9.60V)	8Ah
Weight		
Approx. 5.95kg		
Internal Resistance (at 1KHz)		
Approx. 10 mΩ		
Maximum Discharge Current for		
5 seconds: 300A		
Charging Methods at 25°C		
Cycle use:		
Charging Voltage		14.4 to 15.0V
Coefficient -5.0mV/°C/cell		
Maximum Charging Current:		6A
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		97%
3 month		92%
6 month		85%
Case Material		
ABS UL94 HB		
Terminal		
F6		



DIMENSIONS

Length (L)	181±2 1 mm
Width (W)	76±2 1 mm
Height (H)	167±2 1 mm
Overall Height (HT)	167±2 1 mm





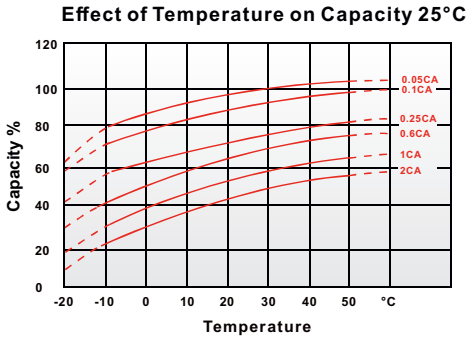
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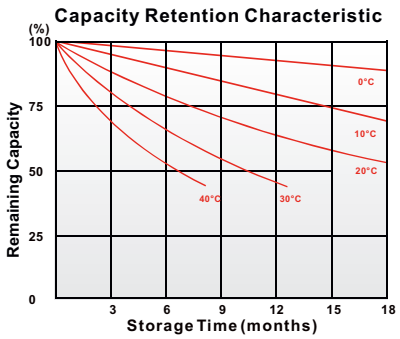
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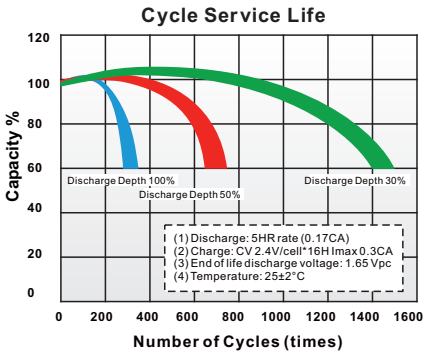
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PERFORMANCE DATA

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	108	125	136	143	145	147	149
10	min	77.1	87.0	94.3	98.7	99.8	101	102
15	min	64.5	72.2	78.8	81.8	82.6	83.5	84.4
30	min	34.8	37.2	39.8	41.3	41.8	42.3	42.7
60	min	22.2	23.2	24.0	24.7	24.8	25.2	25.5
120	min	12.2	12.7	13.0	13.5	13.6	13.7	13.8
180	min	9.53	9.88	10.1	10.3	10.4	10.5	10.6
240	min	7.63	7.93	8.12	8.27	8.32	8.38	8.46
300	min	6.65	6.88	7.00	7.10	7.13	7.18	7.24
600	min	3.87	3.98	4.07	4.13	4.15	4.19	4.22
1200	min	2.05	2.12	2.17	2.20	2.22	2.23	2.25

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	68.2	73.9	77.5	80.7	82.0	83.4	85.8
10	min	45.8	48.9	51.4	53.5	54.4	55.4	57.0
15	min	34.7	37.3	39.0	40.5	41.1	41.7	42.6
30	min	18.5	20.0	21.1	22.0	22.2	22.6	23.2
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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