



ADVANCED GEL TECHNOLOGY



**BROADBAND, CATV
APPLICATIONS**



**SUITABLE FOR USE IN A
WIDE TEMPERATURE RANGE**



The Power Broadband Advanced Gel batteries are designed and manufactured to handle every aspect of the demanding Broadband industry. The MCG series is built to withstand the wide range of environments, storage, multiple handlings, extreme operating conditions and recycling that Broadband applications require.

Features and Benefits

- Standard black polypropylene case and cover with reinforced end walls.
- Removable carrying handles.
- A recognized component of U.L..
- Gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering, minimal maintenance.
- 99.7% pure lead, calcium alloy grids.
- Shock absorbent thick wall polypropylene cases.
- Cold forged non-porous terminal bushings, eliminate post leakage.
- Thermally welded case to cover bond, eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- Can be used in any orientation, upright side or end is recommended.
- 100% recyclable materials.

Specifications	MCG-90P	MCG-100P	MCG-120P
Capacity @ 8hrs to 1.75 V.P.C	69 AH	82 AH	96 AH
Cells / Volts	6 / 12	6 / 12	6 / 12
Impedance @ 77°F / 25°C milliohms	4.30	4.10	3.30
Short circuit current	3209 amps	3366 amps	4182 amps
Height inches / mm	8.33 / 212	8.33 / 212	8.69 / 221
Length inches / mm	11.13 / 283	13.0 / 330	13.5 / 343
Width inches / mm	6.57 / 167	6.57 / 167	6.76 / 172
Weight lbs / kgs	60.6 / 27.5	72.0 / 32.7	82.0 / 37.2
Terminal type	Threaded copper insert, 1/4"		
Electrolyte (S.G.)	1.300		
Operating temperature range:	-40°C/-40°F to 60°C/140°F		
Charging voltage / current:	2.27 to 2.30 volts per cell, constant voltage at a maximum current of C/4 amps.		
Temperature compensation: Apply for temperature range of 0°C/32°F to 40°C/104°F.	Subtract 3mV/°C/cell or 1.7 mV/°F/cell, above 25°C/77°F. Add 3 mV/°C/cell or 1.7 mV/°F/cell, below 25°C/77°F.		
AC ripple from charging source	1.5% peak to peak of float		
Storage time from a fully charged condition:	6 months at 25°C/77°F. For each 9°C/15°F rise, reduce the storage time by half.		

Additional services

- Drop ship program.
- JIT deliveries.
- Recycling pick-up program.

No transport restrictions

- Surface transport. Classified as non-hazardous material as relates to DOT-CFR Title 49 parts 171-189.
- Maritime transport. Non hazardous as per IMDG amendment 27.
- Air transport. Non hazardous complies with IATA / ICAO, special provision A67.

MCG-90P DISCHARGE RATES @ 77°F (25°C)					
Time Hours	AMPS WATTS	End Cell Voltage			
		1.90	1.85	1.80	1.75
1	A	41.5	45.1	46.9	47.6
	W	507	540	559	565
1.5	A	30.7	33.2	34.4	34.7
	W	369	394	408	413
2	A	24.9	26.6	27.5	27.7
	W	293	316	329	341
3	A	18.1	19.2	19.9	20.1
	W	212	230	240	247
4	A	14.2	15.0	15.5	15.8
	W	169	183	191	196
5	A	11.7	12.4	12.8	13.0
	W	142	152	159	164
6	A	9.9	10.6	10.9	11.1
	W	122	131	136	142
7	A	8.7	9.2	9.6	9.7
	W	108	114	119	124
8	A	7.7	8.2	8.5	8.6
	W	9.7	101	106	110
10	A	6.2	6.7	7.0	7.0
	W	79	83	86	90
12	A	5.2	5.7	5.9	6.0
	W	67	70	73	76
20	A	3.3	3.6	3.8	3.8
	W	42	44	46	47
24	A	2.8	3.1	3.2	3.2
	W	36	38	39	40
48	A	1.5	1.6	1.7	1.7
	W	19	20	21	22
72	A	1.0	1.1	1.2	1.2
	W	13	14	15	15

MCG-100P DISCHARGE RATES @ 77°F (25°C)					
Time Hours	AMPS WATTS	End Cell Voltage			
		1.90	1.85	1.80	1.75
1	A	49.7	54.1	56.3	57.1
	W	609	648	670	678
1.5	A	36.8	39.8	41.2	41.6
	W	442	473	489	496
2	A	29.9	32.0	32.9	33.2
	W	52	380	394	409
3	A	21.7	23.1	23.9	24.1
	W	255	276	288	297
4	A	17.0	18.0	18.6	19.0
	W	202	219	229	236
5	A	14.0	14.9	15.4	15.6
	W	170	183	191	197
6	A	11.9	12.7	13.1	13.3
	W	147	157	164	170
7	A	10.4	11.1	11.5	11.6
	W	130	137	143	149
8	A	9.19	9.85	10.2	10.3
	W	116	122	127	132
10	A	7.46	8.07	8.35	8.40
	W	95.0	99.4	103	108
12	A	6.28	6.86	7.11	7.17
	W	80.6	84.3	87.5	90.9
20	A	4.00	4.35	4.51	4.55
	W	50.8	53.1	54.9	56.6
24	A	3.41	3.69	3.82	3.87
	W	43.0	45.0	46.7	48.3
48	A	1.80	1.90	2.02	2.08
	W	22.9	23.9	25.4	26.5
72	A	1.21	1.27	1.38	1.45
	W	15.4	16.2	17.5	18.4

MCG-120P DISCHARGE RATES @ 77°F (25°C)					
Time Hours	AMPS WATTS	End Cell Voltage			
		1.90	1.85	1.80	1.75
1	A	58.0	63.1	65.7	66.7
	W	710	756	782	791
1.5	A	43.0	46.5	48.1	48.6
	W	516	552	571	579
2	A	34.8	37.3	38.4	38.8
	W	410	443	460	477
3	A	25.3	26.9	27.9	28.2
	W	297	322	336	346
4	A	19.8	21.0	21.7	22.1
	W	236	256	268	275
5	A	16.3	17.3	17.9	18.2
	W	199	213	223	230
6	A	13.9	14.8	15.3	15.5
	W	171	183	191	198
7	A	12.1	12.9	13.4	13.5
	W	151	160	167	174
8	A	10.7	11.5	11.9	12.0
	W	136	142	148	154
10	A	8.70	9.42	9.75	9.80
	W	111	116	121	126
12	A	7.33	8.01	8.29	8.37
	W	94.0	98.4	102	106
20	A	4.72	5.08	5.26	5.48
	W	59.2	62.0	64.0	66.0
24	A	3.97	4.30	4.46	4.51
	W	50.2	52.5	54.5	56.3
48	A	2.13	2.22	2.35	2.54
	W	26.7	27.8	29.7	30.9
72	A	1.41	1.48	1.63	1.71
	W	18.0	18.9	20.5	21.5

MISSION: The Power Battery mission is to provide a reliable and competitive product backed up with the necessary technical expertise to meet the requirements of an increasingly demanding market place.

PRODUCTS: Power Battery is a manufacturing driven company. Our product development team combines market demands together with our engineering and manufacturing expertise to build a quality product and to do so in a fast and cost effective manner. The end result is a product that provides reliability and long life at an affordable price to the user.

LOCATIONS: Power Battery has three major corporate locations around the world. One in Paterson, New Jersey which covers the U.S.A., Latin America and the Pacific Rim. A second in Iberville, Quebec to cover the Canadian market and a third in Romsey, England which covers the European, Middle East and African markets. Our Corporate headquarters, R&D, manufacturing and USA distribution center are located in Paterson. The Iberville facility is a high-tech automated manufacturing center, and has the distinction of being the only battery plant in Canada manufacturing V.R.L.A. batteries. The UK sales office also has a stocking warehouse with systems capability and service. Power Battery now has sales offices in Milan, Italy and Hong Kong with major distributors throughout South America, Europe, Africa and Asia. Visit our website at www.powerbattery.com to find the distributor closest to you.