

# Power

AlphaCell™  
GelCell Batteries



## GXL and GOLD-HP:

- High-performance Silver Alloy for maximum life expectancy
- Increased runtime for VoIP networks
- 100% runtime capacity out-of-box – No cycling required
- Maintenance-free threaded inserts — no periodic retorquing

Alpha's standby battery offering incorporates Gel for thermal dissipation to ensure optimal life performance for your particular Broadband application. The AlphaCell batteries provide the longest runtimes and the best longevity in today's demanding outdoor non-temperature controlled cable power environments. All backed with industry leading full non-prorated warranties.

General Specifications

Model:	215 GOLD-HP	190 GOLD-HP	210 GXL	180 GXL	165 GXL
Warranty <sup>1</sup> :	5 to 6 year <sup>4</sup> full replacement Extended	5 to 6 year <sup>4</sup> full replacement Extended	4 to 5 year full replacement Long	4 to 5 year full replacement Long	4 to 5 year full replacement Long
Service Life:	215	190	210	180	165
Runtime (minutes) <sup>2</sup> :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	High	High	High
Heat Resistant:	Low	Low	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Specifications

Model:	215 GOLD-HP	190 GOLD-HP	210 GXL	180 GXL	165 GXL
Typical Runtime (minutes) <sup>2</sup> :	215	190	210	180	165
Cells Per Unit:	6	6	6	6	6
Voltage Per Unit:	12.8	12.8	12.8	12.8	12.8
Conductance Value:	1175	1100	1175	1100	1000
Max. Discharge Current (A):	900	900	900	900	800
Short Circuit Current (A):	2800	2600	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0050	0.0050	0.0055
Capacity at 20hrs: (to 1.75VPC)	107Ah	95Ah	106Ah	94Ah	86Ah
BCI Group Size:	31	31	31	31	27
Weight (lb/kg):	72/32.7	66/30	72/32.7	66/30	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) <sup>3</sup> :	13.42/340.9	13.42/340.9	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm) <sup>3</sup> :	6.80/172.7	6.80/172.7	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range					
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (VDC):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P				

Notes:

1 Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

2 Runtimes calculated using a 25A DC constant current load with voltage discharge to 1.75V/cell @ 25°C.

3 Dimensions at top of battery.

4 In Canada, the Gold warranty is 6 years when AlphaGuard™ Charge Management is used in the battery string, and 5 years if AlphaGuard Charge Management is not used.

Typical Standby Time in Minutes @ 25°C/77°F

XM2 90Vac@	4A				6A				8A				10A				12A			
Battery Runtime:	215	190	210	180	215	190	210	180	215	190	210	180	215	190	210	180	215	190	210	180
3 batteries:	508	453	498	431	320	285	314	271	236	209	231	199	186	165	182	157	149	132	146	126
4 batteries:	701	625	687	595	444	396	436	377	329	293	323	279	261	232	256	221	210	187	206	178
6 batteries:	1091	978	1070	931	701	625	687	595	523	465	513	443	418	372	410	354	339	301	332	287
8 batteries:	1487	1338	1458	1274	960	859	941	818	720	643	706	612	577	515	566	490	478	419	469	399
9 batteries:	1686	1519	1653	1447	1091	978	1070	931	820	733	804	698	659	587	646	559	538	479	527	456
XM2 90Vac@	14A				16A				18A											
Battery Runtime:	215	190	210	180	215	190	210	180	215	190	210	180								
3 batteries:	119	106	117	101	101	89	99	85	87	78	85	74								
4 batteries:	169	151	166	144	144	128	141	122	124	111	122	106								
6 batteries:	275	245	270	233	236	209	231	199	204	182	200	173								
8 batteries:	385	341	377	325	329	293	323	279	288	255	282	243								
9 batteries:	440	391	431	372	377	335	370	319	329	293	323	279								
XM2 60Vac@	4A				6A				8A				10A				12A			
Battery Runtime:	215	190	210	180	215	190	210	180	215	190	210	180	215	190	210	180	215	190	210	180
3 batteries:	798	712	782	678	508	453	498	431	377	335	370	319	300	267	294	254	242	215	237	205
4 batteries:	1091	978	1070	931	701	625	687	595	523	465	513	443	418	372	410	354	339	301	332	287
6 batteries:	1686	1519	1653	1447	1091	978	1070	931	820	733	804	698	659	587	646	559	538	479	527	456
8 batteries:	2288	2067	2243	1969	1487	1338	1458	1274	1122	1006	1100	958	904	809	886	770	741	660	726	629
9 batteries:	2590	2345	2539	2233	1686	1519	1653	1447	1273	1143	1248	1089	1027	921	1007	877	843	753	826	717
XM2 60Vac@	14A				16A				18A											
Battery Runtime:	215	190	210	180	215	190	210	180	215	190	210	180								
3 batteries:	196	174	192	166	166	148	163	141	144	128	141	122								
4 batteries:	275	245	270	233	236	209	231	199	204	182	200	173								
6 batteries:	440	391	431	372	377	335	370	319	329	293	323	279								
8 batteries:	607	541	595	515	523	465	513	443	458	407	449	388								
9 batteries:	692	617	678	588	597	531	585	506	523	465	513	443								

\* Above calculations based on an AC load with a .92 cable plant power factor.

For contact and additional product information visit [www.alpha.com](http://www.alpha.com) and download a copy of the AlphaCell Gel Cell Battery User's Guide (P/N 745-680-C0)

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