

Modelo: AlphaCell	ESPECIFICACIONES TECNICAS	
Fecha: 2013		
Hojas 1 de 2		
Asunto	Batteries AlphaCell	

Power

AlphaCell™
Broadband Batteries



- › Batteries designed specifically for outdoor broadband applications
- › 100% Runtime capacity “out-of-box”—no cycling required
- › GXL-HP Silver Alloy models provide ultimate product life
- › Full-replacement, non-prorated warranties
- › New 210 series provides more runtime for VoIP networks

Alpha's standby battery offering incorporates four separate battery technologies, ensuring optimal performance for your particular Broadband application. The AlphaCell Batteries provide the ultimate warranties, the longest runtimes and the best longevity in today's demanding outdoor non-temperature controlled cable power environments.



AlphaCell™ Feature Summary

	Premium Gel GXL-HP (210,180,85 GXL-HP)	Gel GXL (210,180,165 GXL)	Premium AGM-P	AGM
Warranty ¹ :	3 to 5 year full replacement	3 to 5 year full replacement	3 to 5 year full replacement	1 year full replacement
Service Life:	Extended	Long	Long	Average
Runtime (minutes) ² :	210, 180 & 85	210, 180 & 165	135	160
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	High	High to Moderate	Moderate
Hydrogen Emission:	Low	Low	Low	Low
Terminals ³ :	L-type with .28" hole Copper Alloy 10-32 insert on 85 only	L-type with .28" hole	Copper Alloy 1/4" insert	L-type with .28" hole

Specifications

Model	210 GXL-HP/GXL	180 GXL-HP/GXL	165 GXL	85 GXL-HP	135 AGM-P	160 AGM
Silver Alloy:	GXL-HP	GXL-HP	N/A	GXL-HP	AGM-P	N/A
CA/SN Alloy:	GXL	GXL	GXL	N/A	N/A	N/A
Typical Runtime (minutes) ² :	210	180	165	85	135	160
Cells Per Unit:	6	6	6	6	6	6
Voltage Per Unit:	12.8	12.8	12.8	12.8	12.8	12.8
Conductance Value:	1175	1100	1000	600	1125	1300
Max. Discharge Current (A):	900	900	800	600	800	800
Short Circuit Current (A):	2800	2600	2500	2200	3100	3300
10 Second Volts @ 100 Amps:	11.4	11.3	11.2	10.8	11.5	11.6
Ohms Impedance 60 Hz:	0.0050	0.0050	0.0055	0.0065	0.005	0.004
Capacity at 20 hours: (to 1.75 VPC)	107Ah	94Ah	86Ah	50Ah	75Ah	88Ah
BCI Group size:	31	31	27	22	24	27
Weight (lb/kg):	72/32.7	66/30	63/28.6	39.6/18	54.8/24.9	62/28
Height w/ terminals (in/mm):	9.48/240.8	9.48/240.8	9.05/229.8	8.09/205.6	8.02/203.6	9.05/229.8
Width (in/mm) ⁴ :	13.42/340.9	13.42/340.9	12.5/317.8	8.99/228.3	10.26/260.5	12.57/317.8
Depth (in/mm) ⁴ :	6.80/172.7	6.80/172.7	6.83/173.4	5.47/138.9	6.83/173.4	6.83/173.4
Operating Temperature Range						
Discharge (°C):	-40 to +71	-40 to +71	-40 to +71	-40 to +71	-40 to +71	-40 to +71
Charge(with temp compensation)(°C):	-23 to +60	-23 to +60	-23 to +60	-23 to +60	-23 to +60	-23 to +60
Floater Charging Voltage (VDC):	13.5-13.8	13.5-13.8	13.5-13.8	13.5-13.8	13.5-13.8	13.5-13.8
AC Ripple Charger:	0.5% RMS or 1.5% of floater charge voltage recommended for best results. Maximum allowed = 4% P-P					

Notes

¹ Warranty varies by country and region. Consult your sales person for details.

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

³ L-Type: applies to 210/180/165 GXL and AGM models. Copper Alloy 10-32 Insert: applies to 85 GXL only. Copper Alloy 1/4" insert applies to 135 GXL only.

⁴ Dimensions at top of battery.

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

XM290VAC@	4 Amps				6 Amps				8 Amps				10 Amps				12 Amps				14 Amps				16 Amps				18 Amps											
	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85					
Battery Runtime:	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85
3 batteries:	498	431	396	205	128	314	271	249	205	128	231	199	183	149	93	182	157	144	116	73	140	126	115	93	58	117	101	92	75	47	99	85	77	64	39	85	74	66	56	33
4 batteries:	687	595	546	289	180	436	377	346	289	180	323	279	256	211	132	256	221	203	166	104	206	178	163	133	83	166	144	132	106	67	141	122	112	90	57	122	106	96	78	48
6 batteries:	1070	931	853	461	288	687	595	546	461	288	513	443	407	342	212	410	354	325	271	168	332	287	264	218	136	270	233	214	175	109	231	199	183	149	93	200	173	159	129	79
8 batteries:	1458	1274	1165	636	401	941	818	750	636	401	706	612	562	475	296	566	490	450	379	236	469	399	367	307	190	377	325	299	248	154	323	279	256	211	132	282	243	223	183	112
9 batteries:	1653	1447	1322	—	—	1070	931	853	—	—	804	698	640	—	—	646	559	514	—	—	527	456	419	—	—	431	372	342	—	—	370	319	294	—	—	323	279	256	—	—

XM260VAC@	4 Amps				6 Amps				8 Amps				10 Amps				12 Amps				14 Amps				16 Amps				18 Amps											
	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85					
Battery Runtime:	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85	210	180	165	135	85
3 batteries:	782	678	622	332	206	498	431	396	332	206	370	319	294	244	151	294	254	233	192	116	237	205	188	153	94	192	166	152	123	75	163	141	129	104	64	141	122	112	90	55
4 batteries:	1070	931	853	461	288	687	595	546	461	288	513	443	407	342	212	410	354	325	271	164	332	287	264	218	132	270	233	214	175	107	231	199	183	149	91	200	173	159	129	79
6 batteries:	1653	1447	1322	724	398	1070	931	853	724	398	804	698	640	542	296	646	559	514	433	232	527	456	419	352	190	431	372	342	285	155	370	319	294	244	134	323	279	256	211	116
8 batteries:	2243	1969	1798	989	547	1458	1274	1165	989	547	1100	958	877	744	408	886	770	706	598	320	726	629	577	488	263	595	515	473	398	214	513	443	407	342	188	449	388	356	298	163
9 batteries:	2539	2233	2037	—	—	1653	1447	1322	—	—	1248	1089	997	—	—	1007	877	803	—	—	826	717	658	—	—	678	588	540	—	—	585	506	465	—	—	513	443	407	—	—

Note

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

