

# AlphaCell™ XTV

AGM Top-Terminal Batteries



Your Power Solutions Partner

- Extreme temperature Absorbed Glass Mat (AGM) technology
- Superior cold temperature performance for outdoor applications
- Longer runtimes help increase network reliability
- Multiple models provide options for all network architectures
- Power density gains allow more runtime from smaller sized battery
- Extended service life for non-temperature controlled outdoor enclosures
- Full 5-year replacement warranty\*



**The AlphaCell XTV Battery line is specifically designed for extreme outdoor temperature applications. It's virgin lead-alloy grids minimize corrosion and maximize life expectancy.** Patented Computerized Charge/Discharge System (CCDS) provides 100% out-of-box runtime capacity. Strategic global manufacturing and distribution locations available with non-spillable transportation ratings. Optimized for remote advanced status monitoring.

\*When used with Alpha approved power supplies and enclosures in USA and Canada. For other regions see manual for details

POWER



# AlphaCell XTV Extreme Temperature Batteries

NOMINAL SPECIFICATIONS		100XTV	150XTV	195XTV	240XTV
Battery Models		100XTV	150XTV	195XTV	240XTV
Operating Temperature Range (w/ Temperature Compensation)		-40 to 60°C / -40 to 140°F (charger temperature compensation @ ±3.3mVpc per °C)			
Storage Temperature		-10 to 40°C (14 to 104°F)	-10 to 40°C (4 to 104°F)	-10 to 40°C (14 to 104°F)	-10 to 40°C (14 to 104°F)
Self Discharge		Battery can be stored up to 12 months at 25°C (77°F). Higher temperatures during storage will require more frequent recharge.			
Voltage Per Unit		12V	12V	12V	12V
Float Charge Voltage		13.5 to 13.8 Vdc average per 12V unit at 25°C (77°F)			
Refresh/Boost Charging Voltage		14.4 to 15.0 Vdc average 12V unit at 25°C (77°F)			
Maximum AC Ripple (Charger)		0.5% RMS or 1.5% of float recommended for best results. Maximum voltage allowed = 4% P/P			
Terminal Type		Threaded alloy insert terminal to accept M6 x 12mm bolt		Threaded alloy insert terminal to accept M6 x 20mm bolt	
Terminal Hardware Torque		13.6NM / 120in-lbs	13.6NM / 120in-lbs	13.6NM / 120in-lbs	13.6NM / 120in-lbs
Case Sizes		22NF	24	27	31
Dimensions	mm	207H x 228L x 138W	214H x 275L x 168W	214H x 322L x 169W	217H x 343L x 170W
	inches	8.17H x 9.01L x 5.46W	8.44H x 10.85L x 6.65W	8.43H x 12.71L x 6.67W	8.57H x 13.50L x 6.71W
Weight Approximate		17.7kg (39lbs)	25.4kg (56lbs)	30.5kg (67lbs)	32kg (75lbs)
Runtime Rating 25A (@ 25°C/77°F to 1.75Vpc)		100 minutes	150 minutes	195 minutes	240 minutes
Amp Hour Capacity 20Hr Rate (@ 25°C/77°F to 1.75Vpc)		56Ah	80Ah	100Ah	112Ah
Maximum Discharge Current		300A	800A	800A	850A
Short Circuit Current		1450A	1900A	2250A	2650A
Impedance 60Hz (approximate)		0.005Ω	0.0045Ω	0.0039Ω	0.0034Ω
Conductance Range Fully Charged New Battery (@ 25°C/77°F)		700 - 800	900 - 1100	1050 - 1250	1250 - 1550

Terminal hardware included with every battery

CONSTANT CURRENT NOMINAL RATINGS IN AMPS (@ 25°C / 77°F TO 1.75V PER CELL)										
Discharge Time (Hours)	1	2	3	4	5	6	8	10	12	20
100XTV	39.4	22.1	15.8	12.4	10.3	8.7	6.7	5.4	4.6	2.8
150XTV	53.0	30.6	21.6	16.8	13.9	11.9	9.3	7.7	6.5	4.0
195XTV	65.5	37.6	26.9	21.0	17.3	14.7	11.3	9.4	7.9	5.0
240XTV	81.7	45.5	32.1	25	19.8	16.6	13	10.5	9	5.6

ESTIMATED RUNTIME MINUTES USING XM3-918HP (DEDUCT 4-6% FOR LEGACY XM POWER SUPPLIES)																
90VAC @	4A				8A				12A				18A			
XTV Models	100	150	195	240	100	150	195	240	100	150	195	240	100	150	195	240
3 Batteries	280	401	506	581	133	190	245	289	81	117	153	188	47	69	92	118
6 Batteries	597	869	1083	1240	298	427	538	617	188	269	344	399	113	163	211	251
9 Batteries	914	1349	1673	1927	465	672	841	961	300	430	542	621	185	264	337	391

ESTIMATED RUNTIME MINUTES USING XM3-624HP (DEDUCT 4-6% FOR LEGACY XM, VMX, AND GMX POWER SUPPLIES)																
60VAC @	4A				8A				12A				18A			
XTV Models	100	150	195	240	100	150	195	240	100	150	195	240	100	150	195	240
3 Batteries	416	599	751	858	203	290	369	427	126	181	234	276	74	108	142	175
6 Batteries	869	1280	1588	1828	441	637	797	912	284	407	513	589	174	249	319	371
9 Batteries	1321	1941	2441	2832	681	995	1237	1419	444	661	803	918	278	398	503	577

Based on .92 cable plant factor @ 25°C / 77°F

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#0470133-00 Rev C (10/2015)

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