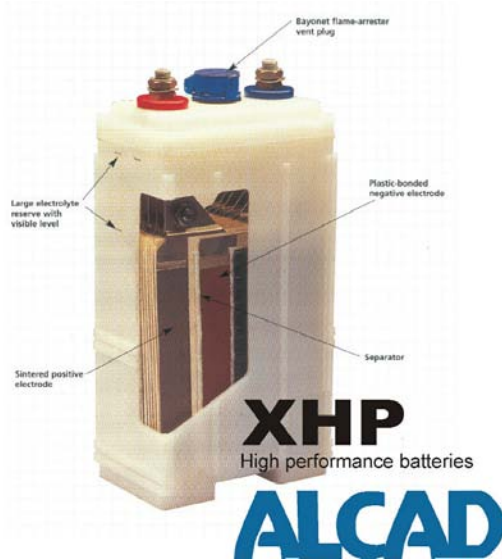




ALCAD XHP Range Nickel Cadmium Batteries



- 20+ year life in many applications
- Outstanding performance
- Operation over wide temperature (-40°C to +60°C)
- Long maintenance intervals (10 years with single rate charging)
- Virtually unlimited storage time

Description

HIGH PERFORMANCE NICAD CELLS

The XHP single cell from ALCAD offer a dependable and highly responsive form of back up power for critical applications.

The XHP range is specified for both on and off-shore applications like hospitals, traffic control, power generation, oil & gas exploration and other hazardous marine installations where the implications of main power supply interruption cannot be contemplated.

They operate faultlessly under a wide variety of climatic conditions and are built to withstand mechanical and electrical abuses such as AC ripple, over-discharging, voltage reversal, high overcharge currents all having no effect upon the XHP range.

With their steel superstructure and tough polypropylene casing, the XHP life will greatly out-live a lead acid battery.

All ALCAD cells comply with relevant IEC, Eurobat, DIN and BSI standards.

The ALCAD range is typically suited for starter applications and critical UPS equipment, examples of which are:

- Diesel Engine Starting
- Switch Closing
- Uninterruptible Power Supplies (UPS)
- Emergency Lighting
- Sub-Zero climate conditions
- Critical DC Standby Applications

Product Specification

Voltage Range:	
nominal voltage	1.2V single cell
Capacity Range:	
nominal capacity XHP Range	11Ah - 320Ah
Charging	
charging methods (recommended)	constant current charging
recommended float charge	1.40 volt/cell
recommended equalising charge	1.45 volt/cell
Rapid charging	20% Ah capacity of cell for 8 hours
General:	
charging temperature range	Electrolyte should <u>never</u> exceed 45°C during charging
Conforms to	IEC 623 / DIN EN 60623

Battery Selection Chart

TABLE 1 CONSTANT CURRENT DISCHARGE PERFORMANCE DATA

Discharge current to final discharge at 1.00V per cell (20 - 25 DEG C)									
Model	Times of discharge								
	seconds		minutes						
	5	30	1	5	10	15	20	30	60
XHP 11	90.1	73.1	66.2	52.8	45.3	35.9	29.6	20.6	10.6
XHP 16	132	107	96.4	76.8	65.8	52.3	43	30	15.4
XHP 21	173	140	127	101	86.4	68.6	56.5	39.4	20.3
XHP 24	197	160	145	115	98.8	78.4	64.6	45	23.1
XHP 28	230	187	169	135	115	91.4	75.3	52.5	27
XHP 36	295	240	216	173	148	118	96.8	67.5	34.7
XHP 45	369	300	271	217	185	147	121	84.4	43.4
XHP 52	426	346	313	250	214	170	140	97.5	50.1
XHP 60	402	337	308	250	225	190	159	112	57.9
XHP 70	469	394	360	292	263	221	186	130	67.5
XHP 80	536	449	411	334	300	253	212	149	77.1

Discharge current to final discharge at 1.00V per cell (20 - 25 DEG C)									
Model	Times of discharge								
	seconds		minutes						
	5	30	1	5	10	15	20	30	60
XHP 90	701	571	511	375	317	268	230	165	86.8
XHP 100	779	638	568	417	352	297	255	183	96.4
XHP 115	896	733	653	479	405	342	293	210	111
XHP 130	1010	829	738	542	458	386	332	238	125
XHP 150	1170	957	852	625	528	446	383	274	145
XHP 170	1320	1080	965	708	599	505	434	311	164
XHP 190	1480	1210	1080	791	669	565	485	347	183
XHP 220	1710	1400	1250	916	775	654	561	402	212
XHP 250	1950	1590	1420	1040	881	743	638	457	241
XHP 280	2180	1790	1590	1170	986	832	714	512	270
XHP 300	2340	1912	1700	1250	1060	892	765	548	289
XHP 320	2490	2040	1820	1330	1130	951	816	658	309

TABLE 2 GENERAL SPECIFICATION

Model	Nominal Capacity (Ah) (5Hr)	Dimensions			
		L (mm)	W (mm)	H (mm)	Cell filled (Kg)
XHP 11	11	46.5	86	196	1.00
XHP 16	16	46.5	86	276	1.60
XHP 21	21	46.5	86	276	1.60
XHP 24	24	46.5	86	276	1.60
XHP 28	28	61	86	276	1.70
XHP 36	36	86	86	276	2.00
XHP 45	45	86	86	276	2.70
XHP 52	52	86	86	276	2.90
XHP 60	60	86	86	308	2.90
XHP 70	70	86	86	308	3.40
XHP 80	80	86	86	308	3.40

Model	Nominal Capacity (Ah) (5Hr)	Dimensions			
		L (mm)	W (mm)	H (mm)	Cell filled (Kg)
XHP 90	90	78	166	340	12.80
XHP 100	100	78	166	340	13.50
XHP 115	115	78	166	340	13.90
XHP 130	130	87	166	340	15.40
XHP 150	150	103	166	340	18.10
XHP 170	170	117	166	340	21.60
XHP 190	190	117	166	340	22.30
XHP 220	220	202	166	340	32.40
XHP 250	250	202	166	340	33.70
XHP 280	280	202	166	340	34.60
XHP 300	300	202	166	340	35.50
XHP 320	320	202	166	340	36.20

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