



# AGM LHR series



- 20°C - +50°C**  
TEMPERATURE RANGE
- ≤3%/month @ 25°C**  
SHELF LIFE
- 2-3 Years\***  
WARRANTY
- 12 Years\***  
DESIGN LIFE

\* Depending on the actual model

LEOCH LHR series, are AGM Valve-Regulated Lead-Acid front terminal batteries that have been optimized for UPS applications. Engineered to offer high-power discharge rates at 15mins and high consistency for multiple string applications, LHR batteries offer an up to 16-year (2V) and 12-year (12V) life design and a wide 12V and 2V capacity range to cover any requirement.

## BATTERY SPECIFICATIONS

Model	Nominal Voltage (V)	Rated Power Discharge 15min @ 1.67V/cell (W)	Rated Capacity 10Hr @ 1.80V/cell (AH)	Approx. Dimensions								Approx. Weight		Terminal Type
				Length		Width		Height		Total Height		kg	lbs	
				mm	in.	mm	in.	mm	in.	mm	in.			
LHR1224W	12	24	5,30	90,00	3,54	70,00	2,76	101,00	3,98	107,00	4,21	1,88	4,15	T1
LHR1226W	12	26	6,50	151,00	5,94	65,00	2,56	93,50	3,68	99,50	3,92	2,08	4,59	T1
LHR1235W	12	35	7,80	151,00	5,94	65,00	2,56	93,50	3,68	99,50	3,92	2,50	5,51	T2
LHR1255W	12	55	13,00	151,00	5,94	98,00	3,86	95,00	3,74	101,00	3,98	4,00	8,82	T2
LHR1285W	12	85	19,00	181,50	7,15	77,00	3,03	167,50	6,59	167,50	6,59	6,00	13,23	M5
LHR12120W	12	120	38,00	197,00	7,76	165,00	6,50	170,00	6,69	170,00	6,69	11,60	25,57	M6
LHR12160W	12	160	45,00	197,00	7,76	165,00	6,50	170,00	6,69	170,00	6,69	14,20	31,31	M6
LHR12185W	12	185	55,00	229,00	9,02	138,00	5,43	205,00	8,07	211,00	8,31	16,20	35,72	M6
LHR12215W	12	215	65,00	348,00	13,70	167,00	6,57	178,00	7,01	178,00	7,01	19,20	42,34	M6
LHR12255W	12	255	70,00	348,00	13,70	167,00	6,57	178,00	7,01	178,00	7,01	21,60	47,63	M6
LHR12300W	12	300	75,00	256,40	10,09	173,00	6,81	213,00	8,39	216,00	8,50	23,40	51,60	M8
LHR12350W	12	350	85,00	293,20	11,54	173,00	6,81	213,00	8,39	216,00	8,50	26,80	59,09	M8
LHR12360W	12	360	100,00	330,00	12,99	173,00	6,81	213,00	8,39	216,00	8,50	29,40	64,83	M8
LHR12400W	12	400	100,00	330,00	12,99	173,00	6,81	213,00	8,39	216,00	8,50	30,20	66,59	M8
LHR12430W	12	430	100,00	330,00	12,99	173,00	6,81	213,00	8,39	216,00	8,50	30,80	67,91	M8
LHR12460W	12	460	120,00	408,00	16,06	177,00	6,97	225,00	8,86	225,00	8,86	37,30	82,25	M8
LHR12510W	12	510	150,00	483,00	19,02	170,00	6,69	238,50	9,39	238,50	9,39	43,20	95,26	M8
LHR12600W	12	600	180,00	532,00	20,94	207,00	8,15	214,00	8,43	220,00	8,66	53,60	118,19	M8
LHR12690W	12	690	200,00	522,00	20,55	240,00	9,45	218,00	8,58	224,00	8,82	62,20	137,15	M8
LHR12765W	12	765	225,00	522,00	20,55	240,00	9,45	218,00	8,58	224,00	8,82	64,80	142,85	M8
LHR12820W	12	820	250,00	522,00	20,55	268,00	10,55	220,00	8,66	226,00	8,90	73,30	161,60	M8
LHR593W	2	593	200,00	170,00	6,69	110,00	4,33	328,00	12,91	343,00	13,50	13,10	28,89	M8
LHR857W	2	857	300,00	170,00	6,69	150,00	5,91	330,00	12,99	345,00	13,58	18,10	39,91	M8
LHR1186W	2	1186	400,00	210,00	8,27	175,00	6,89	330,00	12,99	345,00	13,58	26,40	58,21	M8
LHR1450W	2	1450	500,00	240,00	9,45	175,00	6,89	328,00	12,91	343,00	13,50	31,10	68,58	M8
LHR1714W	2	1714	600,00	300,00	11,81	175,00	6,89	330,00	12,99	345,00	13,58	37,20	82,03	M8
LHR2372W	2	2372	800,00	410,00	16,14	175,00	6,89	330,00	12,99	345,00	13,58	52,90	116,64	M8
LHR2900W	2	2900	1000,00	475,00	18,70	175,00	6,89	328,00	12,91	343,00	13,50	62,00	136,71	M8

## GENERAL FEATURES

- EUROBAT CLASSIFICATION**: Long (and very long) design life classified according to Eurobat (12V >20Ah, 2V all models)
- SAFETY**: Unique anti-explosion one-way vent valve design to minimize water loss and increase safety
- CHARGE ENDURANCE**: Optimized high-power output at short discharge times
- LONG SERVICE LIFE**: Special pasting formula ensures long service life
- CONSISTENCY**: Increased consistency by utilizing low tolerance manufacturing techniques
- ABS CASE**: ABS case UL94-HB (UL94-V0 Optional) is used for increased container strength

## PERFORMANCE CHARACTERISTICS

- Discharge Characteristics**: Graph showing Terminal Voltage (V) vs Discharge Time (min) for various discharge rates (0.1C to 10C) at 25°C. The graph shows that terminal voltage decreases as discharge rate increases and over time.
- Floating Charging Characteristics**: Graph showing Charging Current (A) and Charging Voltage (V/cell) vs Charging Time (hours) for 0.1CA-2.25V/cell at 25°C. It shows the battery reaching a constant voltage plateau after an initial rise.
- Temperature Effect in Relation to Battery Capacity**: Graph showing Capacity (%) vs Battery temperature (°C and °F) for discharge rates of 0.10C, 0.22C, 1.0C, and 2.0C. Capacity generally increases with temperature up to a point.
- Temperature Effect on Long Term Float Life (12V) \***: Graph showing Float Life (year) vs Battery temperature (°C and °F). Float life significantly decreases as temperature increases.

\* Depending on the actual model