PowerSafe® RH

Engine start, UPS and Utility

Battery Range Summary

The PowerSafe® RH series of nickel-cadmium (Ni-Cd) batteries are specifically designed for high current discharges over short durations. The pocket plate design and Ni-Cd chemistry provide exceptionally long life at extreme temperatures. This coupled with the inherent low maintenance requirements make the PowerSafe RH battery series an ideal choice for engine start, UPS and utility applications.

The robust design means an excellent resistance against electrical and mechanical stress, low risk of terminal degradation and a proven 20 year plus service life. This combination and extensive use in service make the PowerSafe RH battery the right choice for industrial applications requiring superior reliability and the highest safety integrity covering discharges of one second to 30 minutes.

Features and Benefits

- Capacity range 10 - 800Ah
- Specifically constructed for high current discharge applications
- Single one piece container construction
- Ni-Cd pocket plate design
- Long storage and shelf life
- Wide operating temperature
- Low risk of terminal degradation
- Translucent plastic case for visible electrolyte level verification
- Proven 20 plus year service life

Construction

- Robust construction means low risk of terminal degradation
- Dual post seal minimizes carbon formation
- Plate lugs are connected to post by bolting or welding
- Spacer plate prevents movement of the cell pack
- Corrugated and perforated separator allows for free circulation of the electrolyte
- Dilute potassium hydroxide electrolyte
- Gas drying / flame arresting vent standard

Installation and Operation

- Optimized for discharges between 1 second to 30 minutes
- Electrolyte reserve reduces watering requirements
- Cells can be stored for long durations without damage
- Translucent case allows for electrolyte level verification
- Proven long service life with 20 plus years in stationary applications
- Operating temperature: -22ºF (-30ºC) to 122ºF (50ºC) Recommended temperature: 32ºF (0ºC) to 104ºF (40ºC)

Standards

- Conforms to EN60623
- Conforms to IEC60623
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

		Nominal Dimensions						Weight - Volumes					
		Length		Width		Height		Unpacked		Electrolyte only 1.200 S.G.			
Cell Type	Nominal Ah Capacity*	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
RH 10	10	1.8	46	3.3	85	9.3	237	3.6	1.6	1.1	0.5	0.11	0.4
RH 20	20	1.8	46	3.3	85	9.3	237	4.2	1.9	0.7	0.3	0.07	0.3
RH 30	30	2.1	53	5.3	134	13.0	330	9.0	4.1	3.1	1.4	0.30	1.2
RH 40	40	2.1	53	5.3	134	13.0	330	9.7	4.4	2.9	1.3	0.28	1.1
RH 50	50	2.1	53	5.3	134	13.0	330	10.1	4.6	2.2	1.0	0.22	0.8
RH 65	65	2.7	69	5.3	134	13.0	330	13.4	6.1	3.5	1.6	0.34	1.3
RH 80	80	2.7	69	5.3	134	13.0	330	14.6	6.6	2.8	1.3	0.27	1.0
RH 100	100	4.1	104	5.3	134	13.0	330	19.4	8.8	5.1	2.3	0.51	1.9
RH 125	125	4.1	104	5.3	134	13.0	330	21.4	9.7	4.1	1.9	0.41	1.5
RH 150	150	4.3	108	6.5	164	13.0	330	23.2	11.9	6.7	3.0	0.66	2.5
RH 185	185	6.5	164	6.2	158	13.0	330	34.4	15.6	11.0	5.0	1.09	4.1
RH 200	200	6.5	164	6.2	158	13.0	330	36.7	16.2	10.6	4.8	1.05	4.0
RH 235	235	6.5	164	6.2	158	13.0	330	37.6	17.1	9.8	4.5	0.97	3.7
RH 250	250	6.5	164	6.2	158	13.0	330	38.3	17.4	9.7	4.4	0.96	3.6
RH 280	280	6.9	176	9.7	246	13.0	330	52.2	23.7	15.0	6.8	1.48	5.6
RH 300	300	6.9	176	9.7	246	13.0	330	53.3	24.2	14.3	6.5	1.42	5.3
RH 320	320	6.9	176	9.7	246	13.0	330	54.2	24.6	13.5	6.1	1.34	5.1
RH 360	360	6.9	176	14.5	368	13.0	330	74.6	33.9	24.6	11.2	2.43	9.2
RH 390	390	6.9	176	14.5	368	13.0	330	76.4	34.7	23.9	10.9	2.37	9.0
RH 420	420	6.9	176	14.5	368	13.0	330	78.0	35.4	23.3	10.6	2.30	8.7
RH 450	450	6.9	176	14.5	368	13.0	330	79.9	36.3	22.7	10.3	2.24	8.5
RH 480	480	6.9	176	14.5	368	13.0	330	81.6	37.0	21.9	10.0	2.17	8.2
RH 520	520	6.9	176	17.6	448	13.0	330	98.6	44.7	29.1	13.2	2.88	10.9
RH 560	560	6.9	176	17.6	448	13.0	330	101.1	45.9	28.3	12.9	2.80	10.6
RH 600	600	6.9	176	17.6	448	13.0	330	103.6	47.0	27.5	12.5	2.72	10.3
RH 640	640	6.9	176	17.6	448	13.0	330	106.1	48.1	26.6	12.1	2.64	10.0
RH 700	700	6.9	176	22.0	558	13.0	330	126.1	57.2	35.4	16.1	3.50	13.2
RH 750	750	6.9	176	22.0	558	13.0	330	129.2	58.6	34.3	15.6	3.40	12.8
RH 800	800	6.9	176	22.0	558	13.0	330	132.3	60.0	33.3	15.1	3.29	12.4

**Nominal amp hour capacity at the 5 hour rate to 1.00 volts per cell @ 68F° (20°C)*

EnerSys®
Power/Full Solutions

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