



PowerSafe[®] RM

UPS, Utility and Telecommunications

Battery Range Summary

The PowerSafe[®] RM series of nickel-cadmium (Ni-Cd) batteries are specifically designed for "mixed loads" that includes both high and low rates of discharge. 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 RM battery series an ideal choice for UPS, utility and telecommunication 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 RM battery the right choice for industrial applications requiring superior reliability and the highest safety integrity covering discharges of 30 minutes to more than three hours.

Features and Benefits

- Capacity range 11 - 1390Ah
- 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



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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 30 minutes to more than 3 hours
- 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: -22°F (-30°C) to 122°F (50°C)
Recommended temperature: 32°F (0°C) to 104°F (40°C)

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

Cell Type	Nominal Ah Capacity*	Nominal Dimensions						Weight - Volumes					
		Length		Width		Height		Unpacked		Electrolyte only 1.200 S.G.			
		in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	liters
RM 11	11	1.8	46	3.3	85	6.6	167	2.2	1.0	0.6	0.3	0.06	0.2
RM 18	18	1.8	46	3.3	85	9.3	237	3.3	1.5	1.0	0.5	0.10	0.4
RM 24	24	1.8	46	3.3	85	9.3	237	3.5	1.6	0.9	0.4	0.09	0.3
RM 30	30	1.8	46	3.3	85	9.3	237	3.7	1.7	0.8	0.4	0.08	0.3
RM 40	40	3.3	85	3.3	85	9.3	237	6.2	2.8	2.0	0.9	0.20	0.8
RM 48	48	3.3	85	3.3	85	9.3	237	6.2	2.8	1.7	0.8	0.16	0.6
RM 55	55	3.3	85	3.3	85	9.3	237	6.6	3.0	1.5	0.7	0.15	0.6
RM 65	65	2.1	53	5.3	134	14.3	364	10.8	4.9	2.9	1.3	0.28	1.1
RM 75	75	2.1	53	5.3	134	14.3	364	11.0	5.0	2.7	1.2	0.27	1.0
RM 90	90	2.7	69	5.3	134	14.3	364	13.6	6.2	4.0	1.8	0.40	1.5
RM 110	110	2.7	69	5.3	134	14.3	364	14.3	6.5	3.4	1.6	0.34	1.3
RM 125	125	2.8	70	6.5	164	14.3	364	16.9	7.7	4.6	2.1	0.46	1.7
RM 140	140	2.8	70	6.5	164	14.3	364	17.2	7.8	3.9	1.8	0.38	1.4
RM 160	160	4.3	108	6.5	164	14.3	364	23.3	10.6	8.1	3.7	0.80	3.0
RM 185	185	4.3	108	6.5	164	14.3	364	24.0	10.9	7.5	3.4	0.74	2.8
RM 205	205	4.3	108	6.5	164	14.3	364	24.6	11.2	6.4	2.9	0.64	2.4
RM 225	225	4.3	108	6.5	164	14.3	364	25.5	11.6	6.1	2.8	0.61	2.3
RM 250	250	4.3	108	6.5	164	14.3	364	26.8	12.2	5.7	2.6	0.56	2.1
RM 270	270	6.5	164	6.2	158	14.3	364	35.9	16.3	11.2	5.1	1.11	4.2
RM 300	300	6.5	164	6.2	158	14.3	364	36.3	16.5	11.0	5.0	1.09	4.1
RM 320	320	6.5	164	6.2	158	14.3	364	37.4	17.0	10.6	4.8	1.05	4.0
RM 340	340	6.5	164	6.2	158	14.3	364	38.5	17.5	9.9	4.5	0.98	3.7
RM 355	355	6.5	164	6.2	158	14.3	364	39.6	18.0	9.5	4.3	0.94	3.5
RM 380	380	6.5	164	6.2	158	14.3	364	40.9	18.6	9.5	4.3	0.94	3.5
RM 400	400	6.5	164	6.2	158	14.3	364	41.6	18.9	8.4	3.8	0.83	3.1
RM 420	420	6.9	176	9.7	246	15.0	382	55.9	25.4	14.7	6.7	1.46	5.5
RM 450	450	6.9	176	9.7	246	15.0	382	60.1	27.3	16.1	7.3	1.59	6.0
RM 470	470	6.9	176	9.7	246	15.0	382	62.7	28.5	16.7	7.6	1.65	6.3
RM 500	500	6.9	176	9.7	246	15.0	382	62.3	28.3	15.6	7.1	1.55	5.8
RM 520	520	6.9	176	9.7	246	15.0	382	64.0	29.1	15.2	6.9	1.50	5.7
RM 550	550	6.9	176	9.7	246	15.0	382	64.5	29.3	15.2	6.9	1.50	5.7
RM 570	570	6.9	176	9.7	246	15.0	382	66.9	30.4	15.8	7.2	1.57	5.9
RM 600	600	6.9	176	14.5	368	15.0	382	89.5	40.7	30.1	13.7	2.98	11.3
RM 630	630	6.9	176	14.5	368	15.0	382	93.9	42.7	31.5	14.3	3.11	11.8
RM 675	675	6.9	176	14.5	368	15.0	382	96.1	43.7	28.4	12.9	2.81	10.6
RM 705	705	6.9	176	14.5	368	15.0	382	92.2	41.9	27.3	12.4	2.70	10.2
RM 750	750	6.9	176	14.5	368	15.0	382	94.8	43.1	24.4	11.1	2.42	9.1
RM 850	850	6.9	176	17.6	448	15.0	382	107.4	48.8	27.7	12.6	2.74	10.4
RM 950	950	6.9	176	17.6	448	15.0	382	117.0	53.2	27.5	12.5	2.72	10.3
RM 1000	1000	6.9	176	17.6	448	15.0	382	123.2	56.0	29.0	13.2	2.87	10.9
RM 1050	1050	6.9	176	17.6	448	15.0	382	129.4	58.8	30.6	13.9	3.03	11.4
RM 1150	1150	6.9	176	22.0	558	15.0	382	139.5	63.4	33.4	15.2	3.31	12.5
RM 1250	1250	6.9	176	22.0	558	15.0	382	151.6	68.9	36.3	16.5	3.59	13.6
RM 1390	1390	6.9	176	22.0	558	15.0	382	169.4	77.0	45.8	20.8	4.53	17.1

*Nominal amp hour capacity at the 5 hour rate to 1.15 volts per cell @ 68°F (20°C)

