

BATTERY RANGE SUMMARY

With over 100 years of experience in the design and manufacturing of NiCd batteries, supported by a tradition of continuous improvement and technical development, EnerSys[®] offers a world-leading range of solutions to suit varying applications. Cost effectiveness, safety and durability make the PowerSafe[®] RM battery range one of the most reliable and powerful systems on the market.

PowerSafe RM pocket plate batteries are suitable for industrial applications requiring proven reliability and the highest safety integrity. The RM range is optimized for applications covering discharges of 30 minutes to 3 hours or more.

PowerSafe RM batteries provide an exceptionally long life at extreme temperatures, such as in the solar and wind generation markets. Its low maintenance requirements make it an ideal solution for off-grid, outside plants, railroads, oil and gas refiner pump stations and switchgear applications.

Features & Benefits

- Capacity range: 11Ah - 1250Ah
- Recommended discharge time: 30 min to 180 min
- High final discharge voltage (1.15 V/cell) at a discharge rate of 5 hours with 0.2 C5A
- Excellent resistance against electrical and mechanical stress
- No risks of terminal decomposition or catastrophic failure due to the plate construction
- Operational temperature: -40°F (-40°C) to 122°F (50°C)
- Proven long service life: 20 years in stationary cycling operations
- Long storage life
- Robust construction
- Sufficient electrolyte reserve - long maintenance interval
- Translucent plastic cases for visible electrolyte level
- Conforms to IEC60623/KM...P



Construction

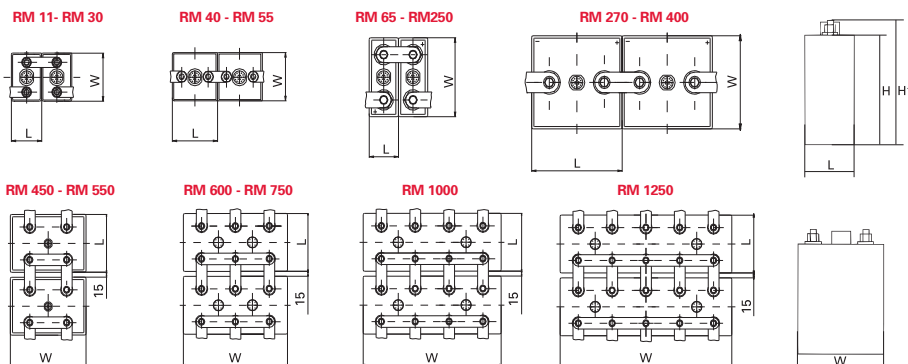
- **Gas drying or flame arresting vent**
- **Safety terminal**
Redundant leak protection minimizes carbonate formation
- **Electrode edge**
Connected to pole bolt by screwing or welding
- **Electrode frame**
Consisting of electrode edge and side bars, seals the plates and works as a current collector
- **Corrugated perforated plastic separator**
Insulates the plates and allows free circulation of electrolyte
- **Horizontal pockets**
Formed by perforated steel strips containing the active material
- **Distance plate**
Prevents movement of the electrode pack

General Specifications

| PowerSafe® Battery Type | Capacity (Ah) | | Nominal Dimensions | | | | | | Weight | | | | Terminal | | |
|-------------------------------|---------------------------------------|--|--------------------|-----|-------|------|--------|------|------------------------|------|-----------------|-------|----------|-------|-------|
| | as per IEC60623 cl. 1.3.3. C5Ah | | Length | | Width | | Height | | Without Electrolyte | | Total Weight | | | | |
| | | | mm | in | mm | in | mm | in | mm | in | kg | lbs | kg | lbs | |
| RM 11 | 11 | | 46 | 1.8 | 85 | 3.3 | 167 | 6.6 | 187 | 7.4 | 0.71 | 1.6 | 1.03 | 2.3 | M10 M |
| RM 18 | 18 | | 46 | 1.8 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 1.04 | 2.3 | 1.48 | 3.3 | M10 M |
| RM 24 | 24 | | 46 | 1.8 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 1.20 | 2.6 | 1.59 | 3.5 | M10 M |
| RM 30 | 30 | | 46 | 1.8 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 1.35 | 3.0 | 1.72 | 3.8 | M10 M |
| RM 40 | 40 | | 85 | 3.3 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 1.88 | 4.1 | 2.76 | 6.1 | M10 M |
| RM 48 | 48 | | 85 | 3.3 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 2.05 | 4.5 | 2.82 | 6.2 | M10 M |
| RM 55 | 55 | | 85 | 3.3 | 85 | 3.3 | 237 | 9.3 | 257 | 10.1 | 2.30 | 5.1 | 2.97 | 6.5 | M10 M |
| RM 65 | 65 | | 53 | 2.1 | 134 | 5.3 | 364 | 14.3 | 392 | 15.4 | 3.56 | 7.8 | 4.85 | 10.7 | M8 F |
| RM 75 | 75 | | 53 | 2.1 | 134 | 5.3 | 364 | 14.3 | 392 | 15.4 | 3.78 | 8.3 | 5.00 | 11.0 | M8 F |
| RM 90 | 90 | | 69 | 2.7 | 134 | 5.3 | 364 | 14.3 | 392 | 15.4 | 4.36 | 9.6 | 6.18 | 13.6 | M8 F |
| RM 110 | 110 | | 69 | 2.7 | 134 | 5.3 | 364 | 14.3 | 392 | 15.4 | 4.94 | 10.8 | 6.51 | 14.4 | M8 F |
| RM 125 | 125 | | 70 | 2.8 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 5.61 | 12.4 | 7.67 | 16.9 | M8 F |
| RM 140 | 140 | | 70 | 2.8 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 6.04 | 13.3 | 7.84 | 17.3 | M8 F |
| RM 160 | 160 | | 108 | 4.2 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 6.92 | 15.3 | 10.61 | 23.4 | M8 F |
| RM 185 | 185 | | 108 | 4.2 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 7.50 | 16.5 | 10.91 | 24.1 | M8 F |
| RM 205 | 205 | | 108 | 4.2 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 8.27 | 18.2 | 11.17 | 24.6 | M8 F |
| RM 225 | 225 | | 108 | 4.2 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 8.82 | 19.4 | 11.62 | 25.6 | M8 F |
| RM 250 | 250 | | 108 | 4.2 | 164 | 6.5 | 364 | 14.3 | 392 | 15.4 | 9.62 | 21.2 | 12.22 | 26.9 | M8 F |
| RM 270 | 270 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 11.20 | 24.7 | 16.30 | 35.9 | M10 F |
| RM 300 | 300 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 11.50 | 25.5 | 16.50 | 36.4 | M10 F |
| RM 320 | 320 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 12.20 | 26.9 | 17.00 | 37.5 | M10 F |
| RM 340 | 340 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 13.00 | 28.7 | 17.50 | 38.6 | M10 F |
| RM 355 | 355 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 13.70 | 30.2 | 18.00 | 39.7 | M10 F |
| RM 380 | 380 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 14.40 | 31.7 | 18.50 | 40.8 | M10 F |
| RM 400 | 400 | | 164 | 6.5 | 158 | 6.2 | 364 | 14.3 | 392 | 15.4 | 15.10 | 33.3 | 18.90 | 41.7 | M10 F |
| RM 450 | 450 | | 176 | 6.9 | 246 | 9.7 | 382 | 15.0 | 408 | 16.1 | 20.00 | 44.1 | 27.30 | 60.2 | M10 F |
| RM 500 | 500 | | 176 | 6.9 | 246 | 9.7 | 382 | 15.0 | 408 | 16.1 | 21.20 | 46.7 | 28.30 | 62.4 | M10 F |
| RM 550 | 550 | | 176 | 6.9 | 246 | 9.7 | 382 | 15.0 | 408 | 16.1 | 22.40 | 49.4 | 29.30 | 64.6 | M10 F |
| RM 600 | 600 | | 176 | 6.9 | 368 | 14.5 | 382 | 15.0 | 408 | 16.1 | 27.00 | 59.5 | 40.70 | 89.7 | M10 F |
| RM 675 | 675 | | 176 | 6.9 | 368 | 14.5 | 382 | 15.0 | 408 | 16.1 | 29.50 | 65.0 | 41.90 | 92.4 | M10 F |
| RM 750 | 750 | | 176 | 6.9 | 368 | 14.5 | 382 | 15.0 | 408 | 16.1 | 32.00 | 70.5 | 43.10 | 95.0 | M10 F |
| RM 1000 | 1000 | | 176 | 6.9 | 448 | 17.6 | 382 | 15.0 | 408 | 16.1 | 42.80 | 94.4 | 56.00 | 123.5 | M10 F |
| RM 1250 | 1250 | | 176 | 6.9 | 558 | 22.0 | 382 | 15.0 | 408 | 16.1 | 52.40 | 115.5 | 68.90 | 151.9 | M10 F |

* Includes height over terminals

Battery Layout



EnerSys
2366 Bernville Road
Reading, PA 19605
USA
Tel: +1-610-208-1991
+1-800-538-3627
Fax: +1-610-372-8613

EnerSys EMEA
EH Europe GmbH
Löwenstrasse 32
8001 Zurich,
Switzerland

EnerSys Asia
152 Beach Road
Gateway East Building
Level 11
189721 Singapore
Tel: +65 6508 1780

Contact:

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