



HRL Series

HRL 1250W Datasheet

12V Top Terminal VRLA-AGM



Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for High-Rate UPS, Float Service Standby Power Applications

Built in Accordance with IEC 61056-1/2:2012 and UL1989 Recognized (MH14533)



Specifications

| | |
|---|---|
| Voltage (Vdc) | 12 |
| Nominal Capacity (1.67 VPC @25°C) | 50W @15min-rate |
| Watts Per Cell (30-Sec 1.67 VPC @ 25°C) | -- |
| Watts Per Cell (5-Min 1.67 VPC @ 25°) | 102 |
| Watts Per Cell (15-Min 1.67 VPC @ 25°) | 51.0 |
| Max Charge Current (A) | 5.0 |
| Max Discharge Current (A) | 130 |
| Short Circuit Current (A) | -- |
| Internal Resistance (mΩ) | Approx. 15.0 |
| Terminal Type | F2 terminal -Faston Tab 250 |
| Terminal Torque | -- |
| Container Material | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request |
| Weight (kg. / lb., Approx.) | 3.90 / (8.60) |
| Length (L) (mm / in) | 151.0±2.0 / 5.94±0.08 |
| Width (W) (mm / in) | 98.0±1.0 / 3.00±0.08 |
| Height (H) (mm / in) | 100.3±1.5 / 3.95±0.06 |
| Design Life | Up to 8 Years in Standby Service at 25°C Eurobat (20°C): 10-12 Years Standard Commercial |
| Operating Temperature | Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F) |
| Float Charging Voltage | 13.5 - 13.8 Vdc/battery 25°C (77°F) |
| Eq. Charging Voltage | 14.4 - 15.0 Vdc/battery 25°C (77°F) |
| Self-Discharge | Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F). |



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Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|-------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 10.02V (1.67 VPC) | 89.5 | 65.0 | 57.6 | 51.7 | 42.8 | 36.7 | 27.2 | 21.7 | 15.8 | 11.3 | 8.96 | 6.43 |
| 10.50V (1.75 VPC) | 75.3 | 58.1 | 52.1 | 47.4 | 39.9 | 34.6 | 26.2 | 21.0 | 15.4 | 11.1 | 8.80 | 6.34 |
| 10.80V (1.80 VPC) | 65.9 | 52.2 | 47.5 | 43.1 | 37.1 | 32.2 | 24.9 | 20.1 | 14.9 | 10.8 | 8.59 | 6.22 |

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

| F.V/Time | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|-------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 10.02V (1.67 VPC) | 911 | 691 | 612 | 552 | 465 | 403 | 306 | 246 | 180 | 131 | 104 | 75.7 |
| 10.50V (1.75 VPC) | 805 | 626 | 564 | 513 | 441 | 384 | 297 | 239 | 177 | 129 | 102 | 75.0 |
| 10.80V (1.80 VPC) | 731 | 574 | 518 | 477 | 412 | 362 | 284 | 230 | 172 | 126 | 100.7 | 73.8 |

