



# HR Series

## HR1227W 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, UL1973 Listed (MH66728) and UL1989 Recognized (MH14533)

Certified by TUV NORD according to ISO 9001:2015



### Specifications

|  |   |
|--|---|
| Voltage (Vdc)                              | 12  |
| Watts Per Cell<br>(30-Sec 1.67 VPC @ 25°C) | --  |
| Watts Per Cell<br>(5-Min 1.67 VPC @ 25°)   | 53.0  |
| Watts Per Cell<br>(15-Min 1.67 VPC @ 25°)  | 27.0  |
| Max Charge Current (A)                     | 2.70  |
| Max Discharge Current (A)                  | 130*  |
| Short Circuit Current (A)                  | 424   |
| Internal Resistance (mΩ)                   | Approx. 19.9  |
| Terminal Type                              | F2-Faston Tab .250*   |
| Terminal Torque                            | --  |
| Container Material                         | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request   |
| Weight (kg. / lb., Approx.)                | 1.97 / 4.34   |
| Length (L) (mm / in)                       | 90.0±1.0 / 3.54±0.04  |
| Width (W) (mm / in)                        | 70.0±1.0 / 2.76±0.04  |
| Height (H) (mm / in)                       | 106.1±1.5 / 4.18±0.06   |
| Design Life                                | Up to 5 Years in Standby Service at 25°C. Eurobat (20°C): 3-5 Years Standard Commercial   |
| Operating Temperature                      | Nominal: 25°C (77°F)<br>Discharge: -15°C - 50°C (5°F-122°F)<br>Charge/Storage: -15°C - 40°C (5°F - 104°F)   |
| Float Charging Voltage                     | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)  |
| Eq. Charging Voltage                       | 14.4 - 15.0 Vdc/battery<br>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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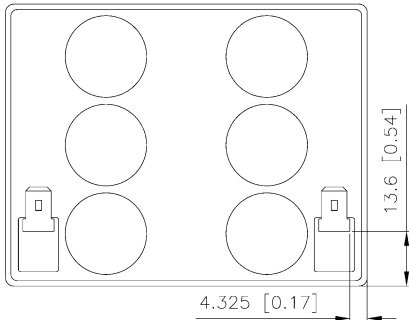
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### Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)

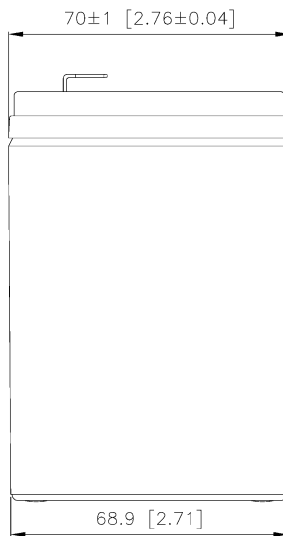
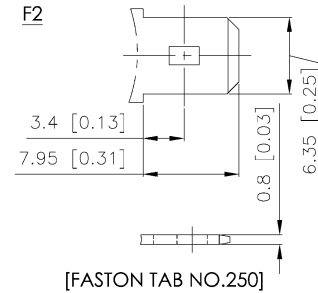
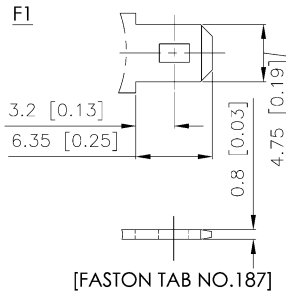
| F.V/Time          | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|-------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 10.02V (1.67 VPC) | 50.4 | 34.3 | 29.8 | 26.5 | 21.4 | 18.3  | 13.5  | 10.8  | 7.83  | 5.66  | 4.49  | 3.18  |
| 10.50V (1.75 VPC) | 41.0 | 29.9 | 26.6 | 24.2 | 20.0 | 17.2  | 12.8  | 10.6  | 7.68  | 5.57  | 4.43  | 3.13  |
| 10.80V (1.80 VPC) | 36.4 | 27.5 | 24.7 | 22.7 | 18.9 | 16.3  | 12.4  | 10.3  | 7.49  | 5.45  | 4.35  | 3.08  |

### Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)

| F.V/Time          | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|-------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 10.02V (1.67 VPC) | 541  | 358  | 318  | 288  | 242  | 211   | 162   | 126   | 91.6  | 66.0  | 52.3  | 37.3  |
| 10.50V (1.75 VPC) | 454  | 327  | 293  | 268  | 229  | 200   | 158   | 124   | 90.3  | 65.2  | 51.8  | 36.8  |
| 10.80V (1.80 VPC) | 403  | 309  | 278  | 255  | 218  | 192   | 153   | 120   | 88.2  | 64.2  | 51.3  | 36.7  |



Detail A Drawing(3:1)



\* F1 terminal is available, Max Discharge Current = 100 A