# XHRL Series

## XHRL 12500W Datasheet

12V Top Terminal VRLA-AGM

| Specifications | |
|---|---|
| Voltage (Vdc) | 12 |
| Nominal Capacity (1.67 VPC @25°C) | 500W @15min-rate |
| Watts Per Cell (30-Sec 1.67 VPC @ 25°C) | -- |
| Watts Per Cell (5-Min 1.67 VPC @ 25°) | 912.17 |
| Watts Per Cell (15-Min 1.67 VPC @ 25°) | 502.83 |
| Max Charge Current (A) | 50.00 |
| Max Discharge Current (A) | 1200 |
| Short Circuit Current (A) | 3685 |
| Internal Resistance (mΩ) | Approx. 2.22 |
| Terminal Type | I2 thread lead alloy terminal to accept M6 bolt |
| Terminal Torque | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m |
| Container Material | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request |
| Weight (kg. / lb., Approx.) | 36.90 / 81.33 |
| Length (L) (mm / in) | 343.0±2.5 / 13.50±0.10 |
| Width (W) (mm / in) | 170.0±2.0 / 6.69±0.0 |
| Height (H) (mm / in) | 216.6±2.5 / 8.53±0.10 |
| Design Life | Up to 10 Years in Standby Service at 25°C<br>Eurobat (20°C): >12 Years Very Long Life |
| 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 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). |

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 60896-21/22:2004 and UL1989 Recognized (MH14533)

MH14533

# XHRL Series

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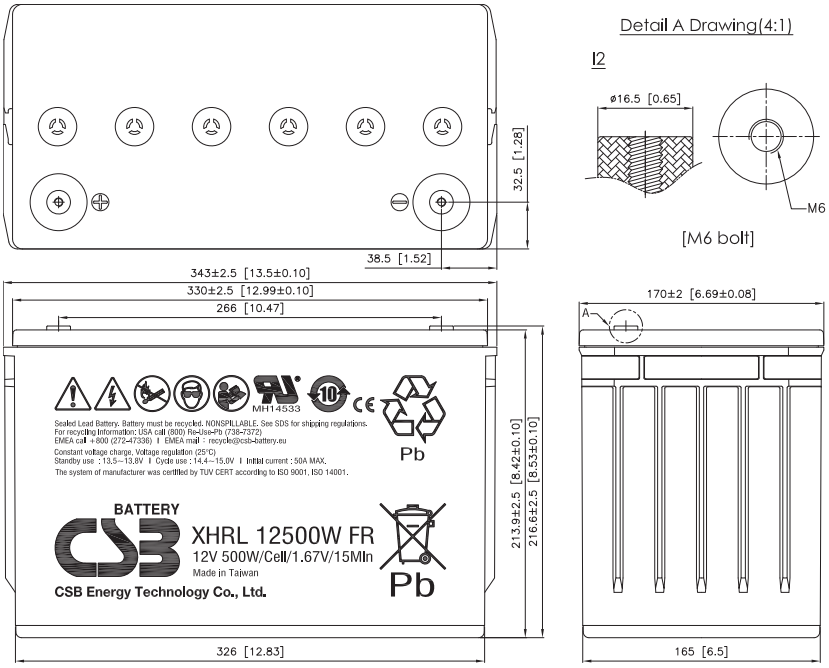
12V Top Terminal VRLA-AGM

| 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) | 700 | 567 | 512 | 472 | 401 | 350 | 264 | 210 | 151 | 107 | 83.5 | 58.9 |
| 10.50V (1.75 VPC) | 592 | 486 | 449 | 412 | 359 | 317 | 247 | 199 | 146 | 104 | 81.7 | 58.1 |
| 10.80V (1.80 VPC) | 514 | 434 | 397 | 369 | 324 | 288 | 231 | 187 | 139 | 100 | 79.3 | 57.1 |

| 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) | 7118 | 5911 | 5473 | 5057 | 4377 | 3845 | 3017 | 2420 | 1774 | 1267 | 998 | 713 |
| 10.50V (1.75 VPC) | 6352 | 5357 | 4941 | 4605 | 3986 | 3565 | 2847 | 2311 | 1722 | 1238 | 980 | 705 |
| 10.80V (1.80 VPC) | 5765 | 4877 | 4516 | 4169 | 3676 | 3334 | 2677 | 2191 | 1652 | 1198 | 953 | 691 |