## XHRL series

# XHRL 12620W




## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

## General — Design for Standby Power Applications

**【Design Life】**
Up to 10 Years in Standby Service at 25℃
Eurobat (20℃) : >12 YEARS VERY LONG LIFE

**【Operating Temperature Range】**
Nominal Operating Temperature : 25℃(77℉)
Discharge : -15℃ ~ 50℃ (5℉~122℉)
Charge: -15℃ ~ 40℃ (5℉~104℉)
Storage: -15℃ ~ 40℃ (5℉~104℉)

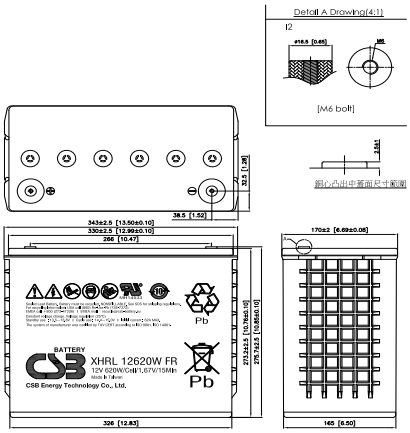
**【Float Charging Voltage】**
13.5 ~ 13.8 VDC/Unit at 25℃ (77℉)

**【Equalization Charging Voltage】**
14.4 ~ 15.0 VDC/Unit at 25℃ (77℉)

**【Self Discharge】**
Less than 10% after 90 days, can be stored up to 6 months at 25℃ (77℉); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25℃ (77℉).

## Specification — Design according with IEC 60896-21/22:2004

| | | | |
|---|---|---|---|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 620W @15min-rate to 1.67V per cell @25℃ (77℉) | | |
| Weight | Approx. 47.20 Kg (104.03 lbs) | | |
| Maximum Discharge Current | 800A (5sec) | | |
| Internal Resistance | Approx. 2.40 mΩ | | |
| Short Circuit Current | 3722A | | |
| Maximum Charge Current | 62A | | |
| Terminal types | I2 thread lead alloy terminal to accept M6 bolt | | |
| Terminal tightening 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 | | |
| Dimensions | Length (L) | 343.0±2.5 mm | 13.50±0.10 inch |
| | Width (W) | 170.0±2.0 mm | 6.69±0.08 inch |
| | Container Height (h) | 273.2±2.5 mm | 10.76±0.10 inch |
| | Overall Height (H) | 275.7±2.5 mm | 10.85±0.10 inch |




**Constant Current Discharge Characteristics Unit: A (25℃, 77℉)**

| F.V/Time | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 766 | 641 | 601 | 571 | 504 | 458 | 349 | 283 | 206 | 147 | 116 | 81.7 |
| 1.67V | 660 | 585 | 543 | 511 | 466 | 420 | 326 | 273 | 200 | 144 | 114 | 79.8 |
| 1.70V | 622 | 545 | 512 | 486 | 448 | 398 | 315 | 267 | 196 | 142 | 113 | 78.3 |
| 1.75V | 553 | 485 | 465 | 449 | 398 | 356 | 293 | 252 | 188 | 138 | 110 | 78.2 |
| 1.80V | 494 | 443 | 409 | 383 | 344 | 315 | 270 | 229 | 175 | 131 | 106 | 75.6 |
| 1.85V | 437 | 360 | 339 | 322 | 298 | 280 | 239 | 201 | 158 | 120 | 97.9 | 71.1 |

**Constant Power Discharge Characteristics Unit: W (25℃, 77℉)**

| F.V/Time | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 7070 | 6088 | 5774 | 5529 | 5280 | 4692 | 3770 | 3108 | 2304 | 1681 | 1344 | 966 |
| 1.67V | 6439 | 5680 | 5542 | 5432 | 4894 | 4387 | 3720 | 2983 | 2249 | 1654 | 1329 | 959 |
| 1.70V | 6090 | 5494 | 5406 | 5336 | 4692 | 4262 | 3540 | 2918 | 2222 | 1642 | 1325 | 957 |
| 1.75V | 5579 | 5208 | 4994 | 4825 | 4311 | 3969 | 3282 | 2742 | 2135 | 1592 | 1293 | 944 |
| 1.80V | 5235 | 4660 | 4427 | 4246 | 3894 | 3639 | 2956 | 2515 | 2017 | 1522 | 1247 | 916 |
| 1.85V | 4134 | 3765 | 3715 | 3674 | 3470 | 3120 | 2576 | 2257 | 1864 | 1414 | 1163 | 867 |

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Recognized under UL 1989,
and certified by ISO 9001, 14001, 45001, 50001.

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