



XHRL series

XHRL 12650W



Valve Regulated Lead Acid Battery

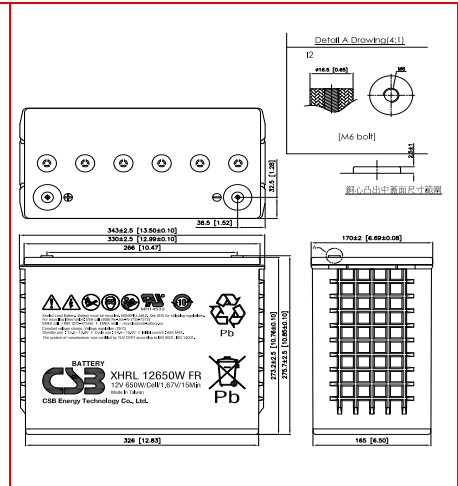
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

General Design for Standby Power Applications

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>【Design Life】 Up to 10 Years in Standby Service at 25°C Eurobat (20°C) : >12 YEARS VERY LONG LIFE</p> <p>【Operating Temperature Range】 Nominal Operating Temperature : 25°C (77°F) Discharge : -15°C ~ 50°C (5°F~122°F) Charge: -15°C ~ 40°C (5°F~104°F) Storage: -15°C ~ 40°C (5°F~104°F)</p> | <p>【Float Charging Voltage】 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p>【Equalization Charging Voltage】 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p>【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).</p> |
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Specification Design according with IEC 60896-21/22:2004

| | | |
|----------------------------|----------------------------------------------------------------|------------------------------|
| Nominal Voltage | 12V (6 cells per unit) | |
| Nominal Capacity | 650W @15min-rate to 1.67V per cell @25°C (77°F) | |
| Weight | Approx. 47.90 Kg (105.57 lbs) | |
| Maximum Discharge Current | 1350A | |
| Internal Resistance | Approx. 2.33 mΩ | |
| Short Circuit Current | 4018A | |
| Maximum Charge Current | 65A | |
| 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°C, 77°F)

| F.V/Time | 2MIN | 4MIN | 5MIN | 6MIN | 8MIN | 10MIN | 15MIN | 20MIN | 30MIN | 45MIN | 60MIN | 90MIN |
|----------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 820 | 691 | 646 | 603 | 541 | 476 | 369 | 289 | 205 | 146 | 115 | 81.7 |
| 1.67V | 725 | 622 | 583 | 552 | 490 | 442 | 349 | 277 | 200 | 144 | 113 | 81.3 |
| 1.70V | 687 | 589 | 556 | 527 | 467 | 425 | 338 | 270 | 197 | 142 | 112 | 81.1 |
| 1.75V | 607 | 540 | 503 | 473 | 428 | 393 | 315 | 255 | 190 | 139 | 111 | 80.5 |
| 1.80V | 538 | 465 | 440 | 422 | 384 | 347 | 288 | 237 | 181 | 133 | 107 | 79.1 |
| 1.85V | 417 | 405 | 384 | 360 | 325 | 300 | 253 | 213 | 167 | 124 | 101 | 75.0 |

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 |
|----------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 8440 | 7255 | 6774 | 6349 | 5650 | 5092 | 4039 | 3261 | 2422 | 1762 | 1392 | 1003 |
| 1.67V | 7840 | 6754 | 6329 | 5959 | 5361 | 4882 | 3911 | 3179 | 2383 | 1740 | 1379 | 997 |
| 1.70V | 7552 | 6512 | 6094 | 5774 | 5196 | 4783 | 3829 | 3124 | 2353 | 1724 | 1369 | 993 |
| 1.75V | 6857 | 6011 | 5718 | 5408 | 4894 | 4459 | 3623 | 2984 | 2278 | 1681 | 1342 | 981 |
| 1.80V | 6077 | 5461 | 5155 | 4917 | 4482 | 4083 | 3322 | 2776 | 2163 | 1612 | 1295 | 956 |
| 1.85V | 5221 | 4792 | 4604 | 4343 | 3961 | 3639 | 2942 | 2505 | 2006 | 1507 | 1219 | 907 |

**Preliminary spec sheet

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