



HR series HR 1251W



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 5 Years in Standby Service at 25°C
Eurobat (20°C) : 3-5 YEARS STANDARD COMMERCIAL

【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)

【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

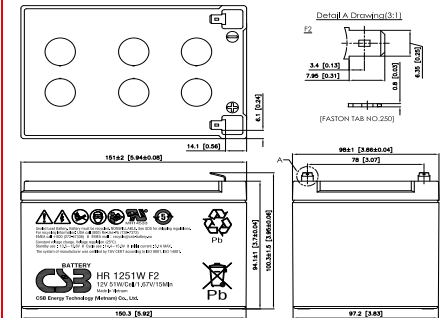
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【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).

Specification Design according with IEC 61056-1/2:2012

| | | |
|----------------------------|---|-----------------------------|
| Nominal Voltage | 12V (6 cells per unit) | |
| Nominal Capacity | 51W @15min-rate to 1.67V per cell @25°C (77°F) | |
| Weight | Approx. 3.85 Kg (8.49 lbs) | |
| Maximum Discharge Current | 180A (5sec) | |
| Internal Resistance | Approx. 13.6 mΩ | |
| Short Circuit Current | 462A | |
| Maximum Charge Current | 5.1A | |
| Terminal types | F2-Faston Tab250 | |
| Terminal tightening torque | -- | |
| Container Material | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request | |
| Dimensions | Length (L) | 151.0±2.0 mm 5.94±0.08 inch |
| | Width (W) | 98.0±1.0 mm 3.86±0.04 inch |
| | Container Height (h) | 94.1±1.0 mm 3.70±0.04 inch |
| | Overall Height (H) | 100.3±1.5 mm 3.95±0.06 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 | 85.8 | 64.0 | 56.4 | 50.8 | 43.0 | 36.8 | 27.1 | 21.4 | 15.4 | 10.9 | 8.33 | 6.65 |
| 1.67V | 82.4 | 61.6 | 54.4 | 49.2 | 41.8 | 35.8 | 26.7 | 20.9 | 15.3 | 10.8 | 8.29 | 6.61 |
| 1.70V | 80.5 | 60.5 | 53.3 | 48.0 | 41.2 | 35.2 | 26.4 | 20.7 | 15.2 | 10.7 | 8.28 | 6.58 |
| 1.75V | 77.2 | 57.9 | 51.3 | 46.4 | 39.9 | 34.3 | 25.7 | 20.3 | 15.1 | 10.6 | 8.24 | 6.52 |
| 1.80V | 72.9 | 54.8 | 48.9 | 44.6 | 38.3 | 32.9 | 24.8 | 19.9 | 14.9 | 10.5 | 8.20 | 6.44 |
| 1.85V | 68.6 | 51.6 | 46.5 | 42.7 | 36.5 | 31.6 | 23.9 | 19.6 | 14.7 | 10.4 | 8.16 | 6.36 |

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 | 1030 | 768 | 675 | 607 | 511 | 441 | 325 | 257 | 185 | 130 | 100 | 79.8 |
| 1.67V | 990 | 742 | 651 | 585 | 500 | 430 | 320 | 251 | 184 | 129 | 99.6 | 79.4 |
| 1.70V | 969 | 726 | 637 | 573 | 494 | 422 | 317 | 249 | 183 | 128 | 99.3 | 79.0 |
| 1.75V | 927 | 695 | 612 | 552 | 479 | 408 | 310 | 244 | 181 | 127 | 98.9 | 78.3 |
| 1.80V | 875 | 657 | 585 | 532 | 460 | 393 | 300 | 239 | 179 | 126 | 98.4 | 77.3 |
| 1.85V | 824 | 619 | 558 | 513 | 441 | 379 | 290 | 235 | 177 | 125 | 97.9 | 76.4 |

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.cn

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Sales Offices

希世比能源科技股份有限公司
CSB Energy Technology Co., Ltd.

BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600
Fax: +886-2-2888-3300

USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)
Fax: +1-817-244-4445

EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140
Fax: +31(0)180-418-327

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



TAIPEI OFFICE

Tel: +886-2-2880-5600
Fax: +866-2-2888-3300