

**Valve Regulated Lead Acid Battery**

Maintenance-Free Sealed Lead Acid Battery.

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**Design for Standby Power Applications**

**【Design Life】**

Up to 8 Years in Standby Service at 25°C

Eurobat (20°C) : 6-9 years, General Purpose

**【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】**

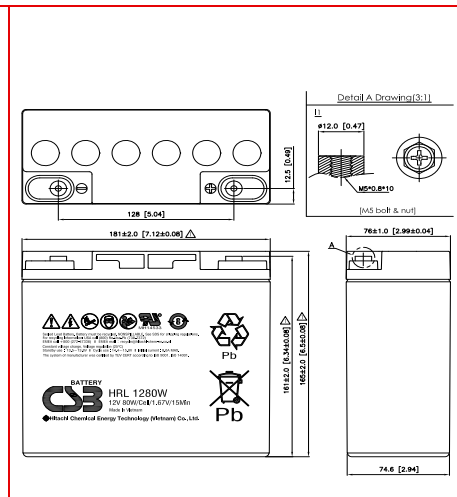
Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);

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          | 80W @15min-rate to 1.67V per cell @25°C (77°F)                  |              |                |
| Weight                    | Approx. 6.60 Kg (14.55 lbs)                                     |              |                |
| Maximum Discharge Current | 300A (5sec)   |              |                |
| Internal Resistance       | Approx. 9.00 mΩ   |              |                |
| Short Circuit Current     | 723A  |              |                |
| Maximum Charge Current    | 8.0A  |              |                |
| Terminal types            | I1 thread lead alloy terminal to accept M5 bolt                 |              |                |
| Terminal breaking Torque  | 59.0 Kgf-cm / 51.0 lbf-in / 5.73 N-m                            |              |                |
| Container Material        | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request |              |                |
| Dimensions                | Length (L)  | 181.0±2.0 mm | 7.13±0.08 inch |
|                           | Width (W)   | 76.0±1.0 mm  | 2.99±0.04 inch |
|                           | Container Height (h)  | 165.0±2.0 mm | 6.50±0.08 inch |
|                           | Overall Height (H)  | 165.0±2.0 mm | 6.50±0.08 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    | 165  | 113  | 98.4 | 87.9 | 72.3 | 62.4  | 44.4  | 35.0  | 24.9  | 18.2  | 14.6  | 10.6  |
| 1.67V    | 142  | 103  | 90.7 | 81.7 | 69.5 | 58.7  | 43.5  | 34.0  | 24.6  | 18.0  | 14.4  | 10.4  |
| 1.70V    | 133  | 98.6 | 88.3 | 80.7 | 67.8 | 58.1  | 42.4  | 33.7  | 24.3  | 17.7  | 14.2  | 10.2  |
| 1.75V    | 119  | 92.3 | 82.6 | 75.5 | 64.3 | 54.3  | 41.6  | 32.9  | 23.7  | 17.4  | 14.0  | 10.1  |
| 1.80V    | 105  | 83.2 | 75.7 | 70.0 | 60.8 | 51.8  | 39.8  | 32.1  | 23.0  | 16.9  | 13.6  | 10.0  |
| 1.85V    | 92.3 | 76.6 | 70.1 | 65.2 | 56.8 | 49.2  | 37.6  | 30.1  | 22.1  | 16.6  | 13.50 | 9.84  |

**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    | 1584 | 1171 | 1047 | 955  | 790  | 691   | 496   | 391   | 282   | 209   | 169   | 122   |
| 1.67V    | 1431 | 1073 | 971  | 895  | 761  | 661   | 485   | 382   | 280   | 207   | 167   | 121   |
| 1.70V    | 1369 | 1045 | 953  | 884  | 743  | 660   | 475   | 381   | 275   | 204   | 165   | 118   |
| 1.75V    | 1270 | 983  | 897  | 832  | 708  | 626   | 468   | 370   | 270   | 200   | 161   | 117   |
| 1.80V    | 1173 | 909  | 836  | 781  | 679  | 593   | 453   | 364   | 266   | 197   | 159   | 116   |
| 1.85V    | 1091 | 855  | 786  | 734  | 641  | 561   | 426   | 346   | 257   | 192   | 156   | 115   |

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

Issued: 181221

**Sales Offices**

**日立化成能源科技股份有限公司**  
Hitachi Chemical Energy Technology Co., Ltd.

**BUSINESS HEADQUARTERS**

Tel: +886-2-2880-5600

Fax: +866-2-2888-3300

**USA OFFICE**

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

Fax: +1-817-244-4445

**SHENZHEN OFFICE (CHINA)**

Tel: +86-755-8831-6488, 8831-6775

Fax: +86-755-8831-6075

**EUROPE (EMEA) OFFICE**

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

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

**SHANGHAI OFFICE (CHINA)**

Tel: +86-21-5046-1622, 5046-0833

Fax: +86-21-5046-1046

**TAIPEI OFFICE**

Tel: +886-2-2880-5600

Fax: +866-2-2888-3300

**BEIJING OFFICE (CHINA)**

Tel: +86-10-5820-5336, 5820-5338

Fax: +86-10-5820-3053

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

