



# UPS series UPS 12460



## 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】

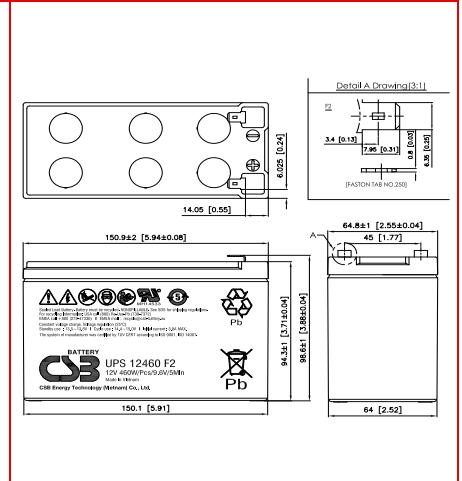
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【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           | 460W @5min-rate to 9.60V per PCS @25°C (77°F)                   |                             |
| Weight                     | Approx. 2.50 Kg (5.51 lbs)                                      |                             |
| Maximum Discharge Current  | 130 A (5sec)  |                             |
| Internal Resistance        | Approx. 16.60 mΩ  |                             |
| Short Circuit Current      | 450A  |                             |
| Maximum Charge Current     | 3.8 A   |                             |
| Terminal types             | F2 terminal -Faston Tab 250                                     |                             |
| Terminal tightening torque | --  |                             |
| Container Material         | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request |                             |
| Dimensions                 | Length (L)  | 150.9±2.0 mm 5.94±0.08 inch |
|                            | Width (W)   | 64.8±1.0 mm 2.55±0.04 inch  |
|                            | Container Height (h)  | 94.3±1.0 mm 3.71±0.04 inch  |
|                            | Overall Height (H)  | 98.6±1.0 mm 3.88±0.04 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    | 77.2 | 52.7 | 44.9 | 39.7 | 32.3 | 27.3  | 19.9  | 15.9  | 11.6  | 8.37  | 6.65  | 4.80  |
| 1.67V    | 69.5 | 50.0 | 43.4 | 38.7 | 31.7 | 26.9  | 19.7  | 15.7  | 11.5  | 8.33  | 6.63  | 4.78  |
| 1.70V    | 66.0 | 48.6 | 42.4 | 37.9 | 31.1 | 26.5  | 19.6  | 15.6  | 11.4  | 8.29  | 6.60  | 4.75  |
| 1.75V    | 60.5 | 45.1 | 39.9 | 35.6 | 29.8 | 25.4  | 19.0  | 15.3  | 11.3  | 8.19  | 6.52  | 4.72  |
| 1.80V    | 53.8 | 41.1 | 36.5 | 33.0 | 27.8 | 24.0  | 18.2  | 14.7  | 11.0  | 7.98  | 6.38  | 4.62  |
| 1.85V    | 46.3 | 36.0 | 32.1 | 29.4 | 24.9 | 21.8  | 16.8  | 13.8  | 10.4  | 7.63  | 6.12  | 4.43  |

### 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    | 710  | 520  | 460  | 412  | 343  | 296   | 224   | 180   | 133   | 96.8  | 77.3  | 56.4  |
| 1.67V    | 673  | 500  | 444  | 400  | 338  | 291   | 221   | 178   | 132   | 96.3  | 77.0  | 56.2  |
| 1.70V    | 650  | 489  | 435  | 394  | 334  | 288   | 220   | 177   | 131   | 96.1  | 76.7  | 56.0  |
| 1.75V    | 605  | 462  | 414  | 378  | 321  | 280   | 215   | 175   | 130   | 95.4  | 76.4  | 55.7  |
| 1.80V    | 555  | 429  | 387  | 356  | 303  | 266   | 207   | 168   | 128   | 93.6  | 75.1  | 54.7  |
| 1.85V    | 486  | 387  | 355  | 324  | 276  | 244   | 189   | 158   | 122   | 89.6  | 72.2  | 52.8  |

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

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



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