

# GP 12120

## 12V 12.0Ah

GP 12120 is a general purpose battery with 3-5 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

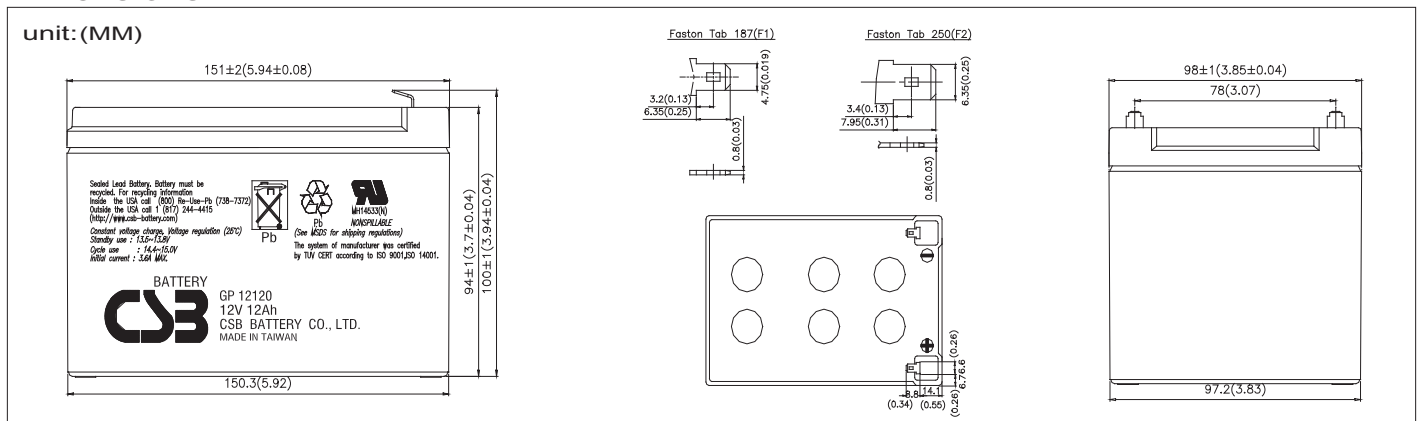


### Specification

|   |   |
|---|---|
| <b>Cells Per Unit</b>                             | 6   |
| <b>Voltage Per Unit</b>                           | 12  |
| <b>Capacity</b>                                   | 12Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)  |
| <b>Weight</b>                                     | Approx. 3.84kg(8.4 lbs)   |
| <b>Maximum Discharge Current</b>                  | 150A/180A(5sec)   |
| <b>Internal Resistance</b>                        | Approx. 14mΩ  |
| <b>Operating Temperature Range</b>                | Discharge: -20°C~50°C (-4°F~122°F)<br>Charge: 0°C~40°C (32°F~104°F)<br>Storage: -20°C~40°C (-4°F~104°F)   |
| <b>Nominal Operating Temperature Range</b>        | 25°C±3°C (77°F±5°F)   |
| <b>Float Charging Voltage</b>                     | 13.5 to 13.8 VDC/unit Average at 25°C (77°F)  |
| <b>Recommended Maximum Charging Current Limit</b> | 3.60A   |
| <b>Equalization and Cycle Service</b>             | 14.4 to 15.0 VDC/unit Average at 25°C (77°F)  |
| <b>Self Discharge</b>                             | CSB Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter. |
| <b>Terminal</b>                                   | Faston Tab 187/250  |
| <b>Container Material</b>                         | -ABS (UL94-HB)*Flammability resistance of UL94-V2 can be available upon request.  |

CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

### Dimensions



### Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

| F.V/Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 48.17 | 31.42 | 24.08 | 14.83 | 8.83 | 5.12 | 3.66 | 2.89 | 2.33 | 1.53 | 1.23 | 0.63 |
| 1.67V    | 44.67 | 30.02 | 23.38 | 14.66 | 8.72 | 5.06 | 3.65 | 2.88 | 2.32 | 1.52 | 1.22 | 0.61 |
| 1.70V    | 43.17 | 29.42 | 23.08 | 14.58 | 8.67 | 5.03 | 3.64 | 2.88 | 2.31 | 1.52 | 1.21 | 0.60 |
| 1.75V    | 40.09 | 28.05 | 22.25 | 14.33 | 8.50 | 4.93 | 3.62 | 2.86 | 2.30 | 1.51 | 1.20 | 0.59 |
| 1.80V    | 37.00 | 26.67 | 21.42 | 14.08 | 8.33 | 4.83 | 3.60 | 2.84 | 2.28 | 1.50 | 1.18 | 0.57 |
| 1.85V    | 33.92 | 25.30 | 20.59 | 13.83 | 8.16 | 4.73 | 3.58 | 2.82 | 2.27 | 1.49 | 1.17 | 0.56 |

### Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

| F.V/Time | 5MIN   | 10MIN  | 15MIN  | 30MIN  | 1HR    | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR |
|----------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| 1.60V    | 578.00 | 377.00 | 289.00 | 178.00 | 106.00 | 61.70 | 43.90 | 34.10 | 27.90 | 18.10 | 14.70 | 7.50 |
| 1.67V    | 536.00 | 360.20 | 280.60 | 175.90 | 104.60 | 61.56 | 43.76 | 34.03 | 27.76 | 18.03 | 14.56 | 7.30 |
| 1.70V    | 518.00 | 353.00 | 277.00 | 175.00 | 104.00 | 61.50 | 43.70 | 34.00 | 27.70 | 18.00 | 14.50 | 7.21 |
| 1.75V    | 481.00 | 336.50 | 267.00 | 172.00 | 102.00 | 61.20 | 43.45 | 33.80 | 27.50 | 17.80 | 14.30 | 7.02 |
| 1.80V    | 444.00 | 320.00 | 257.00 | 169.00 | 100.00 | 60.90 | 43.20 | 33.60 | 27.30 | 17.60 | 14.10 | 6.83 |
| 1.85V    | 407.00 | 303.50 | 247.00 | 166.00 | 98.00  | 60.60 | 42.95 | 33.40 | 27.10 | 17.40 | 13.90 | 6.64 |

● All mentioned values are average values.

