

# Eaton 12V 390W Battery



## Features

- UL-recognized components under UL924 and certified by ISO 9001 and ISO 14001
- Specially designed for high power density and long life applications
- Small volume, lightweight high discharge efficiency
- Can be used for more than 260 cycles at 100% discharge in cycle service
- Analytical Grade electrolyte
- Low self-discharge
- Built to comply with IEC 896-2, DIN 473534, BS 6290 Pt4, Eurobat
- Exclusive three-year battery parts coverage and one-year battery labor coverage

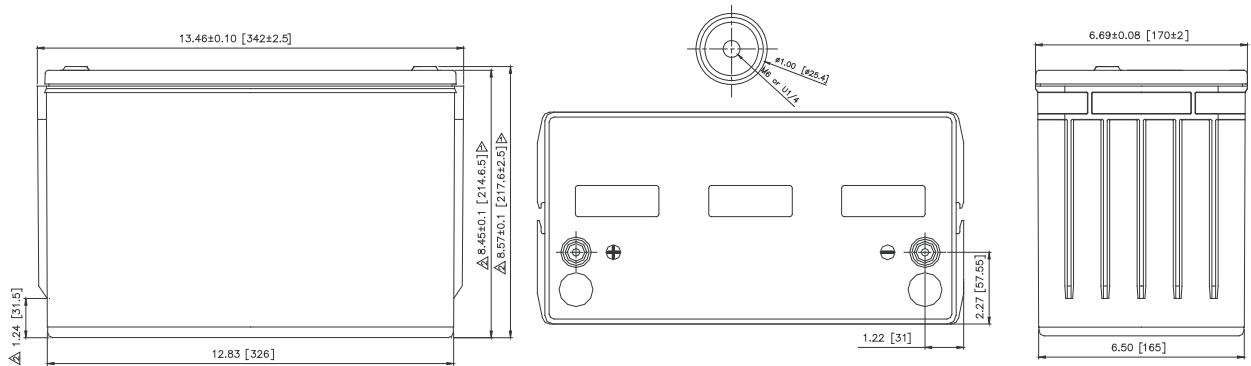
## CONSTANT POWER DISCHARGE CHARACTERISTICS: WATTS/CELL (77°F, 25°C)

| End point volts/cell | 5 min | 10 min | 15 min | 20 min | 30 min | 40 min | 45 min | 50 min | 60 min | 90 min |
|----------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.85V                | 478   | 401    | 326    | 269    | 202    | 165    | 150    | 138    | 118    | 84     |
| 1.80V                | 538   | 433    | 348    | 285    | 216    | 177    | 161    | 147    | 124    | 88     |
| 1.75V                | 603   | 462    | 370    | 302    | 230    | 186    | 169    | 156    | 129    | 93     |
| 1.70V                | 667   | 491    | 388    | 318    | 240    | 194    | 175    | 160    | 134    | 96     |
| 1.67V                | 704   | 509    | 398    | 326    | 245    | 197    | 178    | 163    | 137    | 100    |
| 1.60V                | 779   | 546    | 421    | 342    | 254    | 201    | 183    | 169    | 143    | 105    |

All mentioned values are average values per battery per cell.

Tolerance: X < 6 min (+15% ~ -15%), 6 min X < 10 min (+12% ~ -12%), 10 min X < 60 min (+8% ~ -8%), X 60 min (+5% ~ -5%)

## DIMENSIONS [H x W x D, in (mm)]



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# Technical specifications

|  |  |
|--|--|
| Cells per unit                             | 6  |
| Voltage per unit                           | 12   |
| Capacity                                   | 390W @ 15-minute rate to 1.67V per cell @ 77°F (25°C)  |
| Weight                                     | Approximately 72.75 lb (33 kg)   |
| Maximum discharge current                  | 800A (5 sec)   |
| Internal resistance                        | Approximately 4 mΩ   |
| Operating temperature range                | Discharge: 5°F~122°F (-15°C~50°C)<br>Charge: 5°F~104°F (-15°C~40°C)<br>Storage: 5°F~104°F (-15°C~40°C)   |
| Nominal operating temperature range        | 77°F ± 5°F (25°C ± 3°C)  |
| Float charging voltage                     | 13.5 to 13.8 Vdc/unit<br>Average at 77°F (25°C)  |
| Recommended maximum charging current limit | 39A  |
| Equalization and cycle service             | 14.4 to 15.0 Vdc/unit<br>Average at 77°F (25°C)  |
| Self discharge                             | Batteries can be stored for six months at 77°F (25°C). Please charge batteries before using. For higher temperatures the time interval will be shorter. Voltage test prior to battery installation is recommended. |
| Terminal                                   | 12-thread lead alloy recessed terminal to accept M6 bolt   |
| Container material                         | UL94-V0/File E50955<br>Flammability resistance of UL94-HB/File E216959 is available upon request.  |



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