



# XTV Series

## XTV 1272 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                       |
| Nominal Capacity<br>(1.75 VPC @25°C)   | 7.2Ah @20hr-rate                                                                                                                                                                                         |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 6.72                                                                                                                                                                                                     |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 7.40                                                                                                                                                                                                     |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 6.56                                                                                                                                                                                                     |
| Max Charge Current (A)                 | 2.16                                                                                                                                                                                                     |
| Max Discharge Current (A)              | 130                                                                                                                                                                                                      |
| Short Circuit Current (A)              | 305                                                                                                                                                                                                      |
| Internal Resistance (mΩ)               | Approx. 20.40                                                                                                                                                                                            |
| Terminal Type                          | F2 terminal -Faston Tab 250                                                                                                                                                                              |
| Terminal Torque                        | --                                                                                                                                                                                                       |
| Container Material                     | ABS (UL 94-HB) & Flame Retardant<br>(94-V0) available upon request                                                                                                                                       |
| Weight (kg. / lb., Approx.)            | 2.57 / 5.66                                                                                                                                                                                              |
| Length (L) (mm / in)                   | 150.9±2.0 / 5.94±0.08                                                                                                                                                                                    |
| Width (W) (mm / in)                    | 64.8±1.0 / 2.55±0.04                                                                                                                                                                                     |
| Height (H) (mm / in)                   | 98.6±1.0 / 3.88±0.04                                                                                                                                                                                     |
| Design Life                            | Up to 12 Years in Standby Service<br>at 25°C<br>Eurobat (20°C): 10/12 Years Long<br>Life                                                                                                                 |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C<br>(-4°F-122°F)<br>Storage: -15°C - 40°C<br>(5°F - 104°F)                                                                                         |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months at 25°C<br>(77°F); Fully recharging is required<br>before usage, and charged sooner<br>if stored at higher temperature<br>than 25°C (77°F). |



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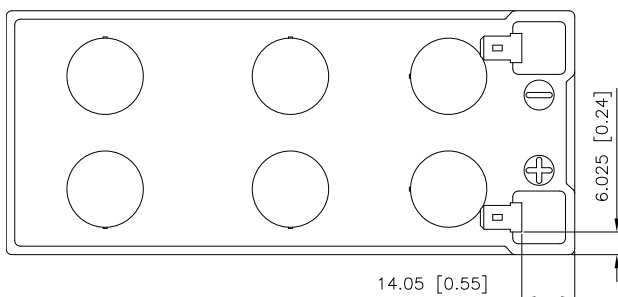


### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

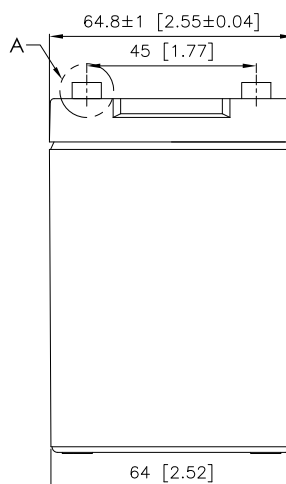
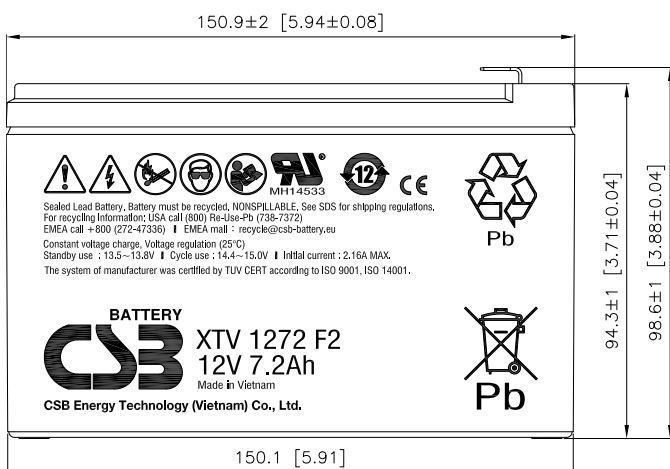
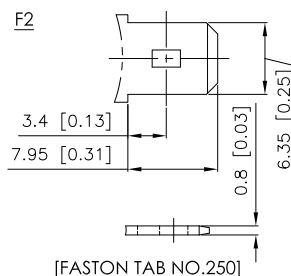
| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 26.8 | 17.4  | 13.3  | 7.87  | 4.47  | 3.28  | 2.63 | 1.89 | 1.24 | 0.87 | 0.71 | 0.39 |
| 10.50V (1.75 VPC) | 24.6 | 16.4  | 12.9  | 7.74  | 4.31  | 3.21  | 2.60 | 1.88 | 1.22 | 0.84 | 0.69 | 0.37 |
| 10.80V (1.80 VPC) | 21.8 | 15.4  | 12.3  | 7.52  | 4.22  | 3.16  | 2.57 | 1.86 | 1.21 | 0.82 | 0.68 | 0.36 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 290  | 190   | 148   | 89.3  | 54.7  | 39.9  | 31.9 | 23.0 | 15.1 | 10.2 | 8.62 | 4.62 |
| 10.50V (1.75 VPC) | 264  | 182   | 145   | 88.1  | 53.8  | 39.5  | 31.7 | 22.8 | 14.9 | 10.0 | 8.55 | 4.55 |
| 10.80V (1.80 VPC) | 239  | 173   | 138   | 86.3  | 53.2  | 39.1  | 31.4 | 22.7 | 14.8 | 9.92 | 8.50 | 4.50 |



Detail A Drawing(3:1)





# XTV Series

## XTV 1285 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                       |
| Nominal Capacity<br>(1.75 VPC @ 25°C)  | 8.5 Ah @ 20hr-rate                                                                                                                                                                                       |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 8.00                                                                                                                                                                                                     |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 8.80                                                                                                                                                                                                     |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 7.87                                                                                                                                                                                                     |
| Max Charge Current (A)                 | 2.55                                                                                                                                                                                                     |
| Max Discharge Current (A)              | 130                                                                                                                                                                                                      |
| Short Circuit Current (A)              | 288                                                                                                                                                                                                      |
| Internal Resistance (mΩ)               | Approx. 20.9                                                                                                                                                                                             |
| Terminal Type                          | F2 terminal -Faston Tab 250                                                                                                                                                                              |
| Terminal Torque                        | --                                                                                                                                                                                                       |
| Container Material                     | ABS (UL 94-HB) & Flame Retardant<br>(94-V0) available upon request                                                                                                                                       |
| Weight (kg. / lb., Approx.)            | 2.62 / 5.77                                                                                                                                                                                              |
| Length (L) (mm / in)                   | 150.9±2.0 / 5.94±0.08                                                                                                                                                                                    |
| Width (W) (mm / in)                    | 64.8±1.0 / 2.55±0.04                                                                                                                                                                                     |
| Height (H) (mm / in)                   | 98.6±1.0 / 3.88±0.04                                                                                                                                                                                     |
| Design Life                            | Up to 12 Years in Standby Service<br>at 25°C<br>Eurobat (20°C): 10/12 Years Long<br>Life                                                                                                                 |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C<br>(-4°F-122°F)<br>Storage: -15°C - 40°C<br>(5°F - 104°F)                                                                                         |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months at 25°C<br>(77°F); Fully recharging is required<br>before usage, and charged sooner<br>if stored at higher temperature<br>than 25°C (77°F). |



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# XTV Series

## XTV 1285 Datasheet

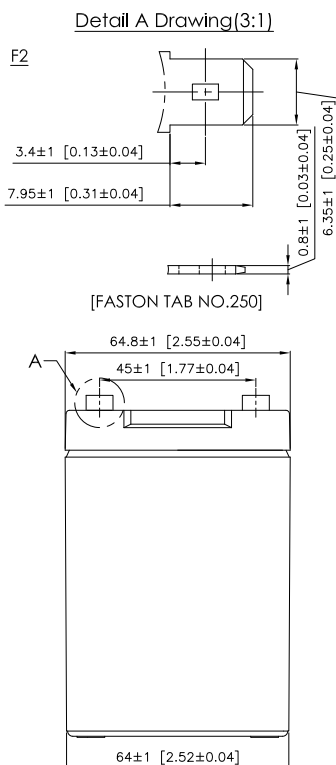
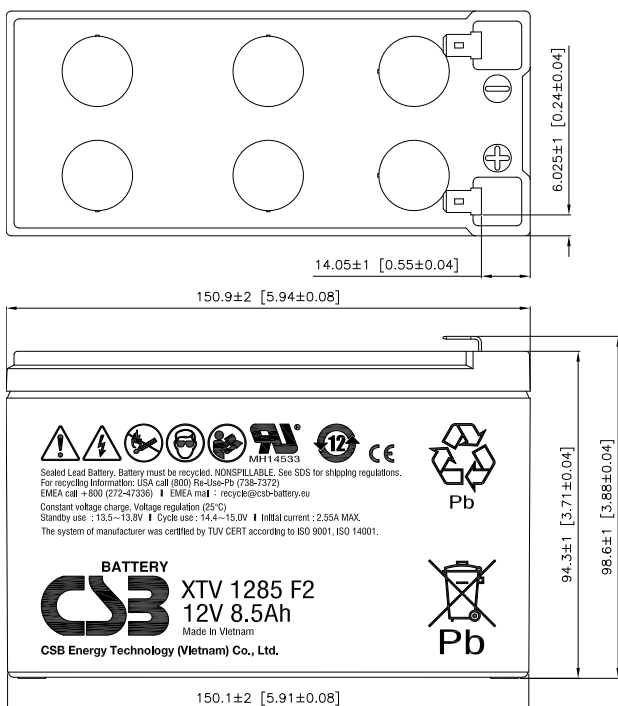
12V Top Terminal VRLA-AGM

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR   | 10HR  | 20HR  |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 10.02V (1.67 VPC) | 34.1 | 21.8  | 16.3  | 9.64  | 5.62  | 4.10  | 3.25 | 2.34 | 1.52 | 1.01  | 0.834 | 0.446 |
| 10.50V (1.75 VPC) | 30.8 | 20.6  | 15.7  | 9.42  | 5.53  | 4.05  | 3.21 | 2.31 | 1.50 | 1.00  | 0.823 | 0.440 |
| 10.80V (1.80 VPC) | 27.9 | 19.2  | 14.8  | 9.12  | 5.40  | 3.97  | 3.15 | 2.27 | 1.47 | 0.984 | 0.808 | 0.433 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 360  | 239   | 183   | 110   | 65.0  | 47.7  | 37.8 | 27.3 | 18.0 | 12.0 | 9.84 | 5.29 |
| 10.50V (1.75 VPC) | 332  | 228   | 177   | 108   | 64.2  | 47.3  | 37.5 | 27.0 | 17.8 | 11.8 | 9.75 | 5.24 |
| 10.80V (1.80 VPC) | 308  | 216   | 168   | 105   | 62.9  | 46.5  | 36.9 | 26.7 | 17.5 | 11.7 | 9.61 | 5.17 |





# XTV Series

## XTV 12120 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                     |                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                       | 12                                                                                                                                                                                        |
| Nominal Capacity (1.75 VPC @ 25°C)  | 12 Ah @20hr-rate                                                                                                                                                                          |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C)  | 11.2                                                                                                                                                                                      |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 12.0                                                                                                                                                                                      |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C)  | 11.1                                                                                                                                                                                      |
| Max Charge Current (A)              | 3.60                                                                                                                                                                                      |
| Max Discharge Current (A)           | 180                                                                                                                                                                                       |
| Short Circuit Current (A)           | 438                                                                                                                                                                                       |
| Internal Resistance (mΩ)            | Approx. 15.0                                                                                                                                                                              |
| Terminal Type                       | F2 terminal -Faston Tab 250                                                                                                                                                               |
| Terminal Torque                     | --                                                                                                                                                                                        |
| Container Material                  | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request                                                                                                                           |
| Weight (kg. / lb., Approx.)         | 4.10 / 9.02                                                                                                                                                                               |
| Length (L) (mm / in)                | 151.0±2.0 / 5.94±0.08                                                                                                                                                                     |
| Width (W) (mm / in)                 | 98.0±1.0 / 3.86±0.04                                                                                                                                                                      |
| Height (H) (mm / in)                | 101.8±1.5 / 4.01±0.06                                                                                                                                                                     |
| Design Life                         | Up to 12 Years in Standby Service at 25°C<br>Eurobat (20°C): 10/12 Years Long Life                                                                                                        |
| Operating Temperature               | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C (-4°F-122°F)<br>Storage: -15°C - 40°C (5°F - 104°F)                                                                                |
| Float Charging Voltage              | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                    |
| Eq. Charging Voltage                | 14.4 - 15.0 Vdc/battery<br>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). |



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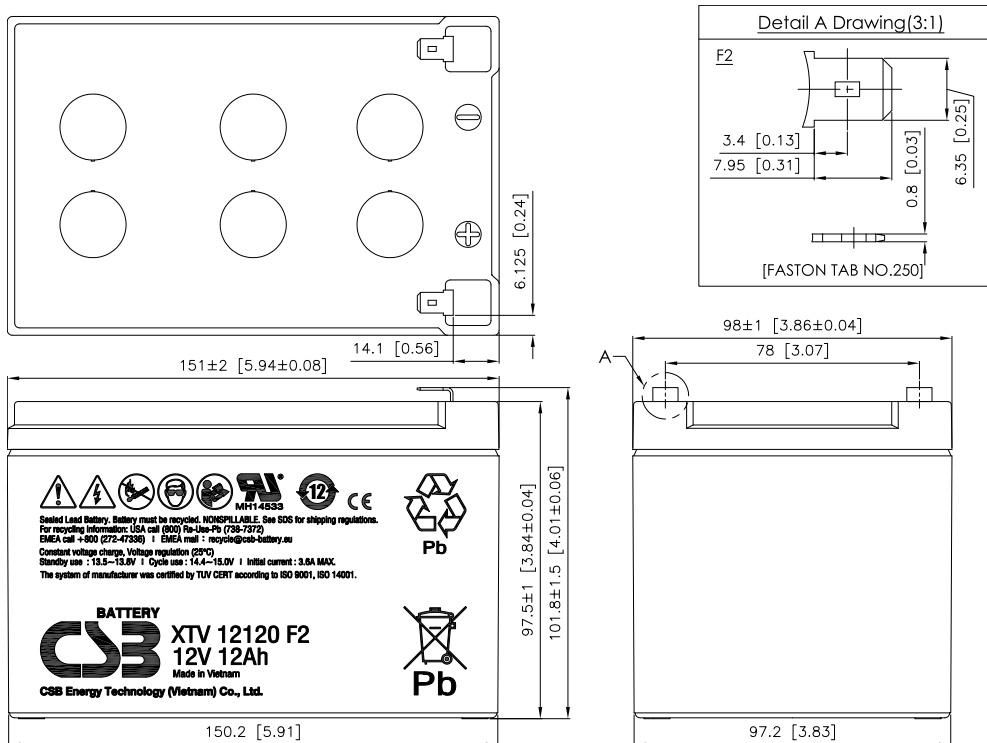
# XTV Series

## XTV 12120 Datasheet

12V Top Terminal VRLA-AGM

| Constant Current Discharge Characteristics Unit: A (25°C, 77°F) |      |       |       |       |       |       |      |      |      |      |      |      |
|-----------------------------------------------------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| F.V/Time                                                        | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
| 10.02V (1.67 VPC)                                               | 49.8 | 30.9  | 22.9  | 13.4  | 7.85  | 5.74  | 4.54 | 3.26 | 2.13 | 1.42 | 1.17 | 0.62 |
| 10.50V (1.75 VPC)                                               | 45.2 | 29.3  | 22.2  | 13.2  | 7.75  | 5.68  | 4.49 | 3.23 | 2.11 | 1.40 | 1.15 | 0.60 |
| 10.80V (1.80 VPC)                                               | 40.3 | 27.4  | 22.1  | 12.8  | 7.61  | 5.59  | 4.43 | 3.19 | 2.07 | 1.39 | 1.14 | 0.59 |

| Constant Power Discharge Characteristics Unit: W (25°C, 77°F) |      |       |       |       |       |       |      |      |      |      |      |      |
|---------------------------------------------------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| F.V/Time                                                      | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
| 10.02V (1.67 VPC)                                             | 538  | 351   | 267   | 155   | 91.7  | 67.3  | 53.5 | 38.8 | 25.6 | 17.1 | 14.1 | 7.55 |
| 10.50V (1.75 VPC)                                             | 495  | 337   | 260   | 153   | 90.9  | 66.7  | 53.1 | 38.5 | 25.4 | 16.9 | 13.9 | 7.49 |
| 10.80V (1.80 VPC)                                             | 454  | 319   | 248   | 150   | 89.7  | 65.9  | 52.5 | 38.0 | 25.1 | 16.8 | 13.8 | 7.39 |







# XTV Series

## XTV 12200 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                        |
| Nominal Capacity<br>(1.75 VPC @25°C)   | 20 Ah @20hr-rate                                                                                                                                                                          |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 18.4                                                                                                                                                                                      |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 20.0                                                                                                                                                                                      |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 18.0                                                                                                                                                                                      |
| Max Charge Current (A)                 | 6.0                                                                                                                                                                                       |
| Max Discharge Current (A)              | 230                                                                                                                                                                                       |
| Short Circuit Current (A)              | 591                                                                                                                                                                                       |
| Internal Resistance (mΩ)               | Approx. 12.2                                                                                                                                                                              |
| Terminal Type                          | I1 thread lead alloy terminal to accept M5 bolt                                                                                                                                           |
| Terminal Torque                        | 30.4±6.1 Kgf·cm / 26.4±5.3 Lbf·in / 3.0±0.6 N·m                                                                                                                                           |
| Container Material                     | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request                                                                                                                           |
| Weight (kg. / lb., Approx.)            | 6.35 / 14.00                                                                                                                                                                              |
| Length (L) (mm / in)                   | 181.0±2.0 / 7.12±0.08                                                                                                                                                                     |
| Width (W) (mm / in)                    | 76.0±1.0 / 2.99±0.04                                                                                                                                                                      |
| Height (H) (mm / in)                   | 165.0±2.0 / 6.50±0.08                                                                                                                                                                     |
| Design Life                            | Up to 12 Years in Standby Service at 25°C<br>Eurobat (20°C): 10/12 Years Long Life                                                                                                        |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C (-4°F-122°F)<br>Storage: -15°C - 40°C (5°F - 104°F)                                                                                |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                    |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>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). |



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# XTV Series

## XTV 12200 Datasheet

12V Top Terminal VRLA-AGM

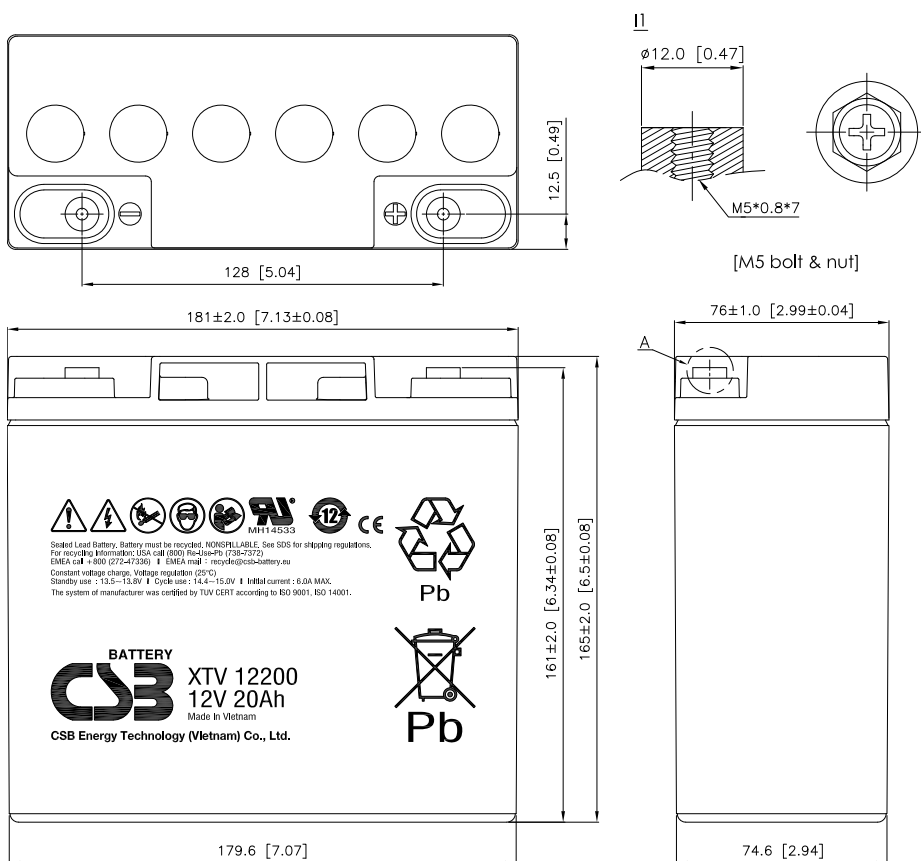
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR  |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 10.02V (1.67 VPC) | 79.7 | 51.2  | 38.6  | 22.6  | 13.1  | 9.51  | 7.48 | 5.34 | 3.47 | 2.34 | 1.92 | 1.02  |
| 10.50V (1.75 VPC) | 69.8 | 47.4  | 36.7  | 21.9  | 12.8  | 9.34  | 7.36 | 5.25 | 3.42 | 2.30 | 1.89 | 1.00  |
| 10.80V (1.80 VPC) | 62.1 | 43.7  | 34.2  | 21.1  | 12.4  | 9.11  | 7.18 | 5.14 | 3.34 | 2.25 | 1.85 | 0.974 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 823  | 554   | 424   | 258   | 151   | 110   | 87.6 | 62.8 | 40.8 | 27.4 | 22.6 | 12.0 |
| 10.50V (1.75 VPC) | 748  | 522   | 406   | 252   | 149   | 108   | 86.5 | 62.0 | 40.3 | 27.0 | 22.2 | 11.8 |
| 10.80V (1.80 VPC) | 690  | 490   | 384   | 245   | 145   | 107   | 84.8 | 61.0 | 39.5 | 26.4 | 21.7 | 11.7 |

Detail A Drawing(3:1)







# XTV Series

## XTV 12550 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                        |
| Nominal Capacity<br>(1.75 VPC @25°C)   | 55Ah @20hr-rate                                                                                                                                                                           |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 53.6                                                                                                                                                                                      |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 55.0                                                                                                                                                                                      |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 52.3                                                                                                                                                                                      |
| Max Charge Current (A)                 | 16.5                                                                                                                                                                                      |
| Max Discharge Current (A)              | 300                                                                                                                                                                                       |
| Short Circuit Current (A)              | 1627                                                                                                                                                                                      |
| Internal Resistance (mΩ)               | Approx. 5.20                                                                                                                                                                              |
| Terminal Type                          | I2 thread lead alloy terminal to accept M6 bolt                                                                                                                                           |
| Terminal Torque                        | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m                                                                                                                                          |
| Container Material                     | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request                                                                                                                            |
| Weight (kg. / lb., Approx.)            | 17.90 / 39.45                                                                                                                                                                             |
| Length (L) (mm / in)                   | 228.0±2.5 / 8.98±0.10                                                                                                                                                                     |
| Width (W) (mm / in)                    | 138.4±1.5 / 5.45±0.06                                                                                                                                                                     |
| Height (H) (mm / in)                   | 206.3±2.5 / 8.12±0.10                                                                                                                                                                     |
| Design Life                            | Up to 12 Years in Standby Service at 25°C<br>Eurobat (20°C): >12 Years Very Long Life                                                                                                     |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C (-4°F-122°F)<br>Storage: -15°C - 40°C (5°F - 104°F)                                                                                |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                    |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>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). |



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# XTV Series

## XTV 12550 Datasheet

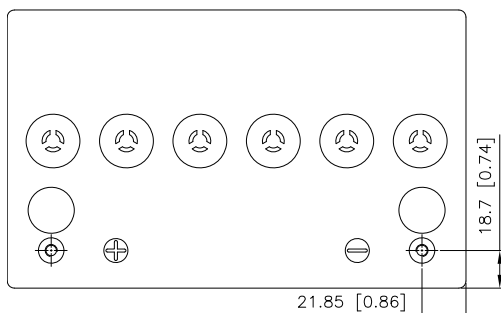
12V Top Terminal VRLA-AGM

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 227  | 159   | 119   | 70.1  | 40.0  | 28.5  | 22.5 | 16.1 | 10.5 | 6.83 | 5.55 | 2.80 |
| 10.50V (1.75 VPC) | 194  | 144   | 112   | 67.9  | 39.4  | 28.0  | 22.1 | 15.8 | 10.3 | 6.70 | 5.41 | 2.75 |
| 10.80V (1.80 VPC) | 172  | 130   | 105   | 64.9  | 38.1  | 27.3  | 21.7 | 15.4 | 10.1 | 6.54 | 5.31 | 2.73 |

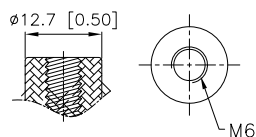
### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|-----|-----|-----|------|------|------|
| 10.02V (1.67 VPC) | 2227 | 1642  | 1283  | 780   | 458   | 331   | 261 | 187 | 122 | 80.2 | 65.6 | 34.4 |
| 10.50V (1.75 VPC) | 2010 | 1519  | 1221  | 761   | 451   | 327   | 259 | 185 | 120 | 78.7 | 64.2 | 33.9 |
| 10.80V (1.80 VPC) | 1879 | 1411  | 1147  | 734   | 443   | 321   | 255 | 182 | 118 | 77.7 | 63.4 | 33.4 |

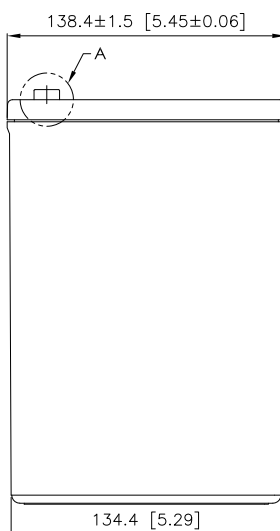
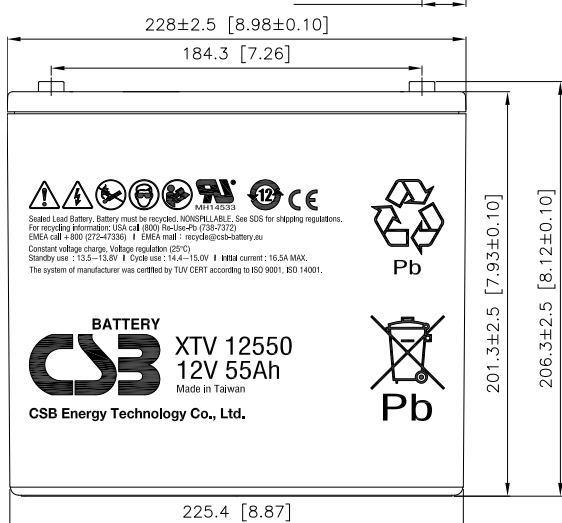


Detail A Drawing(3:1)

12



[M6 bolt]





# XTV Series

## XTV 12800 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                       |
| Nominal Capacity<br>(1.75 VPC @ 25°C)  | 80 Ah @20hr-rate                                                                                                                                                                                         |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 74.2                                                                                                                                                                                                     |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 80.0                                                                                                                                                                                                     |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 73.0                                                                                                                                                                                                     |
| Max Charge Current (A)                 | 24                                                                                                                                                                                                       |
| Max Discharge Current (A)              | 800                                                                                                                                                                                                      |
| Short Circuit Current (A)              | 1917                                                                                                                                                                                                     |
| Internal Resistance (mΩ)               | Approx. 4.70                                                                                                                                                                                             |
| Terminal Type                          | I2 thread lead alloy terminal to accept M6 bolt                                                                                                                                                          |
| Terminal Torque                        | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in<br>/ 5.1±1.0 N·m                                                                                                                                                      |
| Container Material                     | PP (UL 94-HB) & Flame Retardant<br>(94-V0) available upon request                                                                                                                                        |
| Weight (kg. / lb., Approx.)            | 25.50 / 56.20                                                                                                                                                                                            |
| Length (L) (mm / in)                   | 261.0±2.5 / 10.28±0.10                                                                                                                                                                                   |
| Width (W) (mm / in)                    | 168.5±2.0 / 6.63±0.08                                                                                                                                                                                    |
| Height (H) (mm / in)                   | 213.5±2.5 / 8.41±0.10                                                                                                                                                                                    |
| Design Life                            | Up to 12 Years in Standby Service<br>at 25°C<br>Eurobat (20°C): >12 Years Very<br>Long Life                                                                                                              |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C<br>(-4°F-122°F)<br>Storage: -15°C - 40°C<br>(5°F - 104°F)                                                                                         |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months at 25°C<br>(77°F); Fully recharging is required<br>before usage, and charged sooner<br>if stored at higher temperature<br>than 25°C (77°F). |



Valve Regulated Lead Acid  
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Recognized (MH14533)





# XTV Series

## XTV 12800 Datasheet

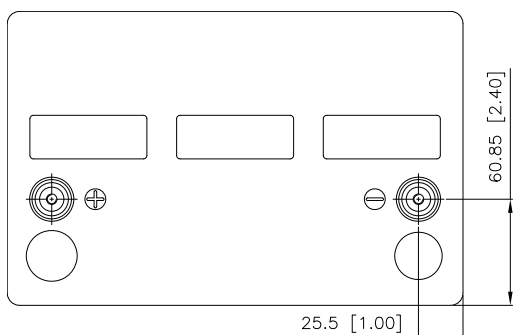
12V Top Terminal VRLA-AGM

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

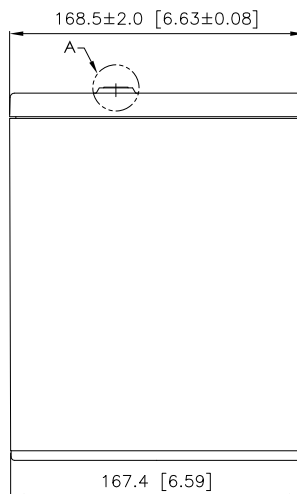
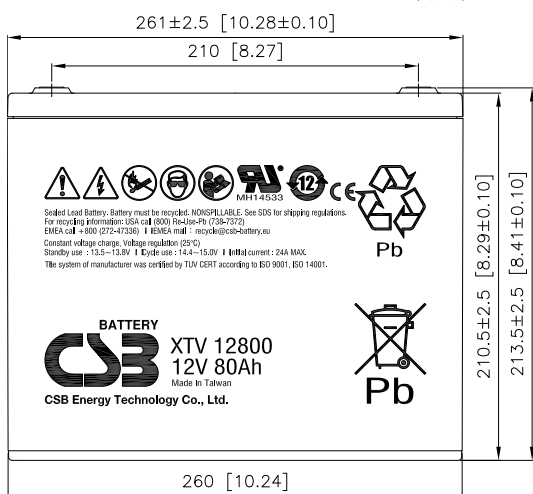
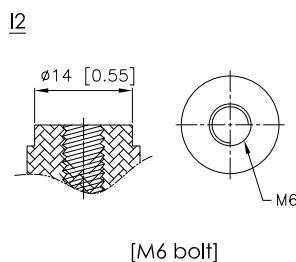
| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 269  | 192   | 151   | 91.4  | 54.2  | 39.8  | 31.3 | 22.0 | 14.2 | 9.42 | 7.75 | 4.11 |
| 10.50V (1.75 VPC) | 229  | 172   | 142   | 88.1  | 53.0  | 38.9  | 30.6 | 21.6 | 13.9 | 9.27 | 7.65 | 4.00 |
| 10.80V (1.80 VPC) | 202  | 157   | 128   | 83.5  | 51.3  | 38.0  | 29.9 | 21.2 | 13.6 | 9.12 | 7.53 | 3.96 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|
| 10.02V (1.67 VPC) | 2742 | 2023  | 1618  | 1026  | 625   | 462   | 366 | 260 | 169 | 111 | 92.6 | 49.2 |
| 10.50V (1.75 VPC) | 2438 | 1867  | 1517  | 996   | 614   | 454   | 361 | 256 | 167 | 109 | 91.8 | 48.5 |
| 10.80V (1.80 VPC) | 2143 | 1746  | 1397  | 951   | 594   | 444   | 352 | 251 | 165 | 108 | 89.8 | 47.8 |



Detail A Drawing(4:1)





# XTV Series

## XTV 121000 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                       |
| Nominal Capacity<br>(1.75 VPC @ 25°C)  | 100 Ah @20hr-rate                                                                                                                                                                                        |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 90.4                                                                                                                                                                                                     |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 100                                                                                                                                                                                                      |
| Ah Capacity<br>(8-Hr 1.80 VPC @ 25°C)  | 89.7                                                                                                                                                                                                     |
| Max Charge Current (A)                 | 30                                                                                                                                                                                                       |
| Max Discharge Current (A)              | 800                                                                                                                                                                                                      |
| Short Circuit Current (A)              | 2258                                                                                                                                                                                                     |
| Internal Resistance (mΩ)               | Approx. 4.10                                                                                                                                                                                             |
| Terminal Type                          | I2 thread lead alloy terminal to accept M6 bolt                                                                                                                                                          |
| Terminal Torque                        | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in<br>/ 5.1±1.0 N·m                                                                                                                                                      |
| Container Material                     | PP (UL 94-HB) & Flame Retardant<br>(94-V0) available upon request                                                                                                                                        |
| Weight (kg. / lb., Approx.)            | 30.20 / 66.56                                                                                                                                                                                            |
| Length (L) (mm / in)                   | 308.7±2.5 / 12.15±0.10                                                                                                                                                                                   |
| Width (W) (mm / in)                    | 169.0±2.0 / 6.65±0.08                                                                                                                                                                                    |
| Height (H) (mm / in)                   | 213.6±2.5 / 8.41±0.10                                                                                                                                                                                    |
| Design Life                            | Up to 12 Years in Standby Service<br>at 25°C<br>Eurobat (20°C): >12 Years Very<br>Long Life                                                                                                              |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C<br>(-4°F-122°F)<br>Storage: -15°C - 40°C<br>(5°F - 104°F)                                                                                         |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months at 25°C<br>(77°F); Fully recharging is required<br>before usage, and charged sooner<br>if stored at higher temperature<br>than 25°C (77°F). |



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Recognized (MH14533)





# XTV Series

## XTV 121000 Datasheet

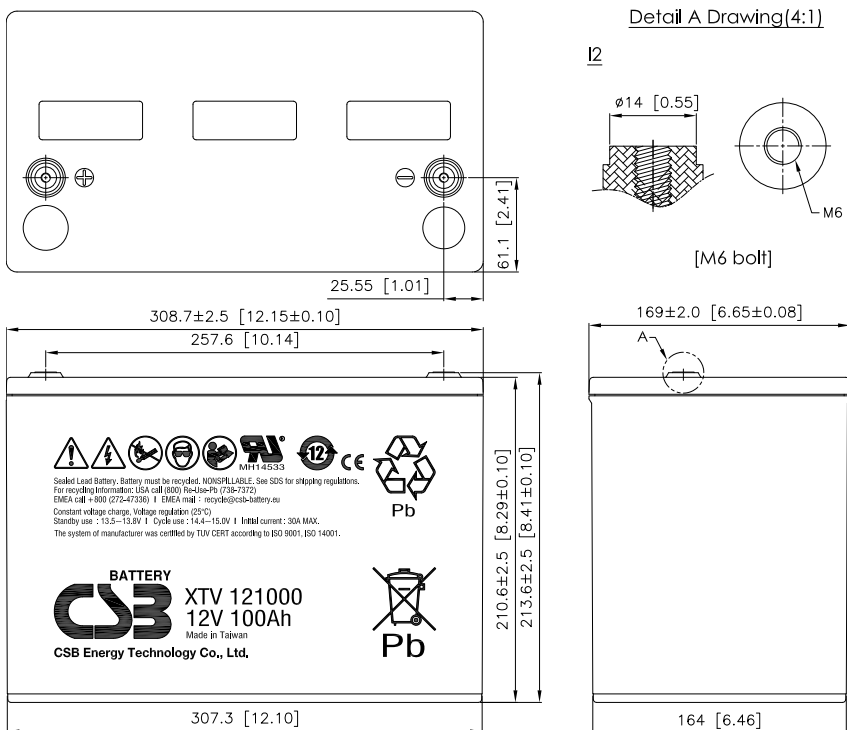
12V Top Terminal VRLA-AGM

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 328  | 242   | 188   | 114   | 67.2  | 48.7  | 38.4 | 27.4 | 17.5 | 11.5 | 9.47 | 5.02 |
| 10.50V (1.75 VPC) | 282  | 212   | 173   | 110   | 65.5  | 47.7  | 37.6 | 26.9 | 17.3 | 11.3 | 9.38 | 5.00 |
| 10.80V (1.80 VPC) | 243  | 193   | 157   | 104   | 63.0  | 46.3  | 36.5 | 26.1 | 16.8 | 11.2 | 9.16 | 4.84 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|
| 10.02V (1.67 VPC) | 3382 | 2513  | 2029  | 1286  | 775   | 567   | 447 | 321 | 210 | 137 | 113  | 59.6 |
| 10.50V (1.75 VPC) | 2932 | 2308  | 1880  | 1245  | 761   | 557   | 440 | 316 | 207 | 135 | 111  | 59.0 |
| 10.80V (1.80 VPC) | 2572 | 2149  | 1727  | 1192  | 735   | 545   | 429 | 308 | 203 | 133 | 110  | 58.1 |







# XTV Series

## XTV 121100 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                     |                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                       | 12                                                                                                                                                                                        |
| Nominal Capacity (1.75 VPC @25°C)   | 110 Ah @20hr-rate                                                                                                                                                                         |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C)  | 102                                                                                                                                                                                       |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 110                                                                                                                                                                                       |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C)  | 101                                                                                                                                                                                       |
| Max Charge Current (A)              | 33                                                                                                                                                                                        |
| Max Discharge Current (A)           | 800                                                                                                                                                                                       |
| Short Circuit Current (A)           | 2648                                                                                                                                                                                      |
| Internal Resistance (mΩ)            | Approx. 3.60                                                                                                                                                                              |
| Terminal Type                       | I2 thread lead alloy terminal to accept M6 bolt                                                                                                                                           |
| Terminal Torque                     | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m                                                                                                                                          |
| Container Material                  | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request                                                                                                                            |
| Weight (kg. / lb., Approx.)         | 34.20 / 75.38                                                                                                                                                                             |
| Length (L) (mm / in)                | 343.0±2.5 / 13.50±0.10                                                                                                                                                                    |
| Width (W) (mm / in)                 | 170.0±2.0 / 6.69±0.08                                                                                                                                                                     |
| Height (H) (mm / in)                | 216.9±2.5 / 8.54±0.10                                                                                                                                                                     |
| Design Life                         | Up to 12 Years in Standby Service at 25°C<br>Eurobat (20°C): >12 Years Very Long Life                                                                                                     |
| Operating Temperature               | Nominal: 25°C (77°F)<br>Discharge/Charge: -20°C - 50°C (-4°F-122°F)<br>Storage: -15°C - 40°C (5°F - 104°F)                                                                                |
| Float Charging Voltage              | 13.5 - 13.8 Vdc/battery 25°C (77°F)                                                                                                                                                       |
| Eq. Charging Voltage                | 14.4 - 15.0 Vdc/battery 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). |



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# XTV Series

## XTV 121100 Datasheet

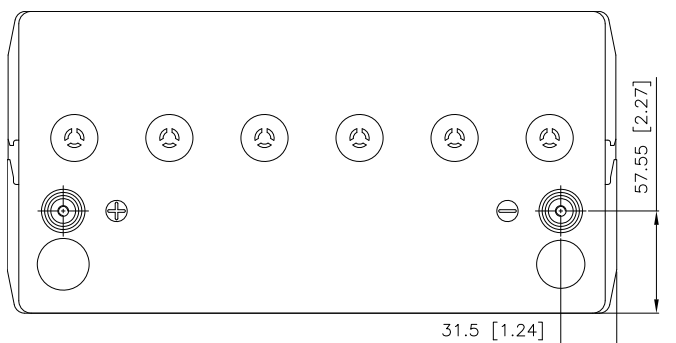
12V Top Terminal VRLA-AGM

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

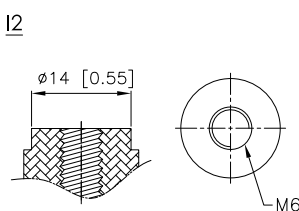
| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 382  | 289   | 227   | 135   | 77.5  | 55.4  | 43.5 | 30.8 | 19.9 | 13.0 | 10.6 | 5.52 |
| 10.50V (1.75 VPC) | 339  | 254   | 207   | 130   | 75.6  | 54.0  | 42.5 | 30.3 | 19.5 | 12.8 | 10.4 | 5.50 |
| 10.80V (1.80 VPC) | 289  | 232   | 188   | 123   | 72.3  | 52.1  | 41.2 | 29.4 | 18.9 | 12.6 | 10.2 | 5.33 |

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

| F.V/Time          | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|-------------------|------|-------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|
| 10.02V (1.67 VPC) | 3921 | 2975  | 2418  | 1515  | 884   | 635   | 502 | 361 | 235 | 154 | 125  | 66.6 |
| 10.50V (1.75 VPC) | 3384 | 2783  | 2251  | 1464  | 862   | 622   | 493 | 356 | 231 | 152 | 123  | 65.7 |
| 10.80V (1.80 VPC) | 2988 | 2573  | 2053  | 1411  | 827   | 600   | 479 | 346 | 228 | 149 | 122  | 64.9 |



Detail A Drawing(4:1)



[M6 bolt]

