

**VRLA Battery****TS 12-100****12V 100AH****TEC - TS Series VRLA Battery****TEC Pro-TM Series—Medium-size batteries**

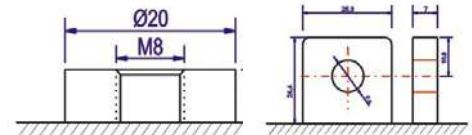
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

**Application:**

- Telecommunications
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

**Construction:**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Sulfuric acid

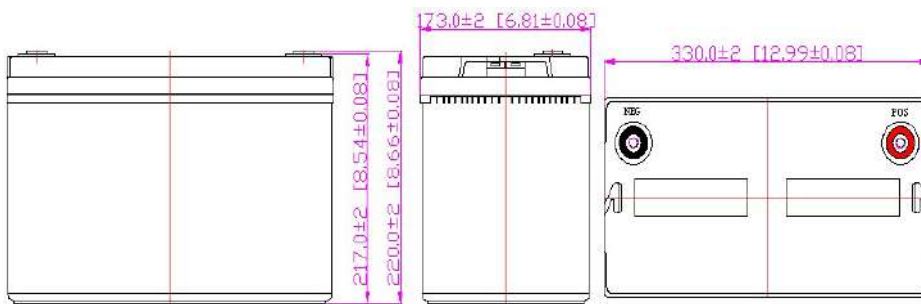


M8 Bolt

M8 Bolt &amp; Nut

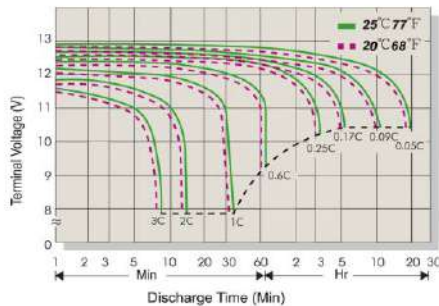
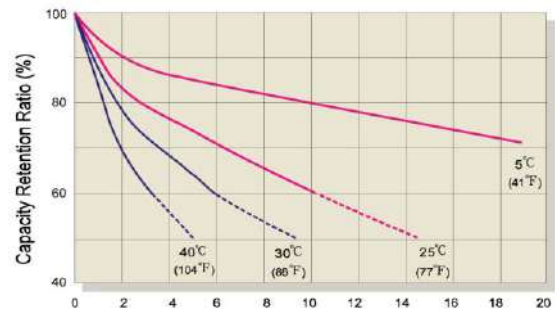
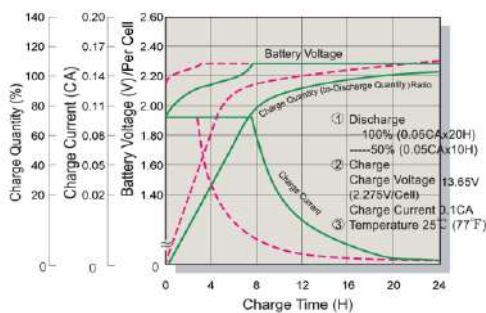
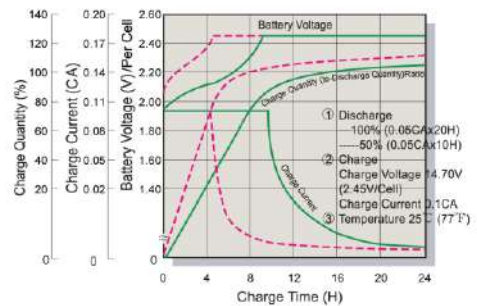
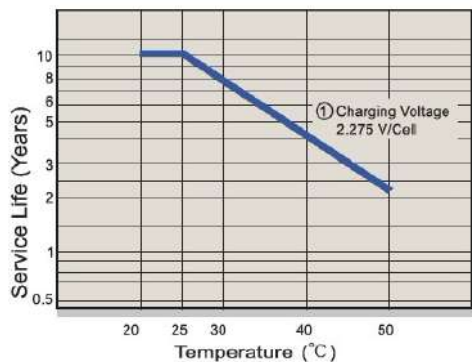
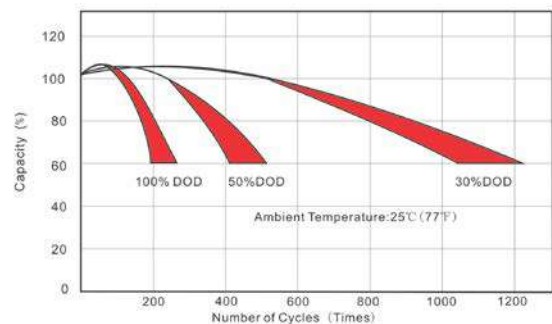
B5 Terminal

T13 Terminal

**Specification:**

| Battery Model                    | TEC Pro – TS 12-100                          |                    |                        |                   |
|----------------------------------|----------------------------------------------|--------------------|------------------------|-------------------|
| Designed Floating Life           | Up to 10 Years                               |                    |                        |                   |
| Capacity (25 °C)                 | 20HR(5.31A,10.8V)                            | 10HR(10.00A,10.8V) | 5HR(19.46A,10.5V)      | 1HR(65.14A,10.5V) |
|                                  | 116.80AH                                     | 110.0AH            | 107.0AH                | 71.66AH           |
| Dimensions                       | Length                                       | Width              | Height                 | Total Height      |
|                                  | 356mm                                        | 175mm              | 218mm                  | 218mm             |
| Approx. Weight                   | 30.5 Kg                                      |                    |                        |                   |
| Internal Resistance              | Full charged at 25°C : ≤4.5m                 |                    |                        |                   |
| Self Discharge                   | 2% of capacity declined per month at (25 °C) |                    |                        |                   |
| Capacity Affected by Temp.(20HR) | 40 °C                                        | 25 °C              | 0 °C                   | -15 °C            |
|                                  | 102%                                         | 100%               | 85%                    | 65%               |
| Charge Voltage(25 °C)            | Cycle use                                    |                    | Float use              |                   |
|                                  | 14.4-14.6V(-30mV/°C), max. Current: 30.0A    |                    | 13.6-13.8V (-20mV/ °C) |                   |

**ARA TAJHIZ SYSTEM****WWW.ATSYS.IR**

**Terminal Voltage (V) and Discharge Time**

**Capacity Retention Characteristic**

**Battery Voltage and Charge Time for Standby Use**

**Battery Voltage and Charge Time for Cycle Use**

**Float(or) Service Life**

**Cycle Service Life**

**Constant Current Discharge(CC,Unit:A) at 25°C**

| F.V/Time   | 5Min   | 10Min  | 15Min  | 30Min  | 1Hr   | 2Hr   | 3Hr   | 4Hr   | 5Hr   | 6Hr   | 10Hr  | 20Hr |
|------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V/Cell | 355.48 | 209.84 | 164.93 | 107.51 | 62.75 | 36.27 | 27.85 | 22.87 | 18.74 | 15.28 | 9.82  | 5.21 |
| 1.80V/Cell | 362.27 | 213.85 | 168.08 | 109.56 | 63.94 | 36.96 | 28.38 | 23.31 | 19.10 | 15.57 | 10.00 | 5.31 |
| 1.75V/Cell | 369.06 | 217.86 | 171.23 | 111.62 | 65.14 | 37.66 | 28.92 | 23.75 | 19.46 | 15.86 | 10.20 | 5.41 |
| 1.70V/Cell | 402.28 | 230.93 | 181.50 | 116.07 | 66.29 | 38.32 | 29.43 | 24.16 | 19.80 | 16.14 | 10.38 | 5.50 |
| 1.67V/Cell | 442.87 | 250.54 | 196.91 | 122.56 | 67.00 | 38.73 | 29.74 | 24.42 | 20.01 | 16.31 | 10.49 | 5.59 |

**Constant Power Discharge (CP,Unit:W) at 25°C**

| F.V/Time   | 5Min   | 10Min  | 15Min  | 30Min  | 1Hr    | 2Hr   | 3Hr   | 4Hr   | 5Hr   | 6Hr   | 10Hr  | 20Hr  |
|------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1.85V/Cell | 693.18 | 409.20 | 321.61 | 122.64 | 122.35 | 70.73 | 54.31 | 44.60 | 36.55 | 29.79 | 19.16 | 10.15 |
| 1.80V/Cell | 706.43 | 417.01 | 327.75 | 123.65 | 124.69 | 72.08 | 55.35 | 45.45 | 37.25 | 30.36 | 19.50 | 10.35 |
| 1.75V/Cell | 719.67 | 424.83 | 333.90 | 127.65 | 127.03 | 73.43 | 56.39 | 46.30 | 37.94 | 30.93 | 19.89 | 10.54 |
| 1.70V/Cell | 784.44 | 450.32 | 353.93 | 129.26 | 129.26 | 74.72 | 57.38 | 47.12 | 38.61 | 31.48 | 20.24 | 10.73 |
| 1.67V/Cell | 863.60 | 488.56 | 383.98 | 130.65 | 130.65 | 75.52 | 57.99 | 47.62 | 39.02 | 31.81 | 20.46 | 10.84 |