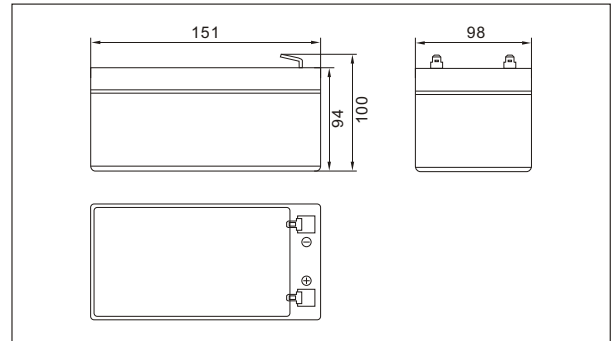




# SW12100(12V10AH)



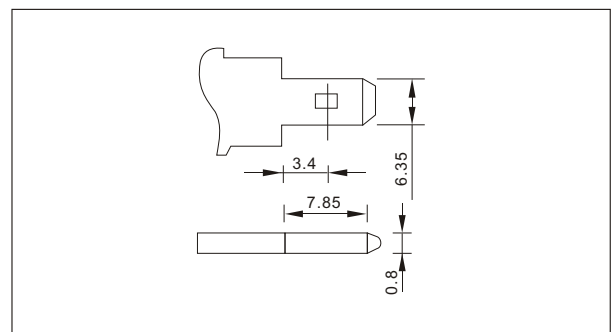
## Outer dimensions (mm)



## Specifications

|                               |                   |                      |
|-------------------------------|-------------------|----------------------|
| Nominal Voltage               | 12V               |                      |
| Rated capacity (20 hour rate) | 10Ah              |                      |
| Dimensions                    | Total Height      | 100 mm (3.94 inches) |
|                               | Height            | 94 mm (3.70 inches)  |
|                               | Length            | 151 mm (5.94 inches) |
|                               | Width             | 98 mm (3.86 inches)  |
| Weight Approx                 | 3.2 Kg (7.05 lbs) |                      |

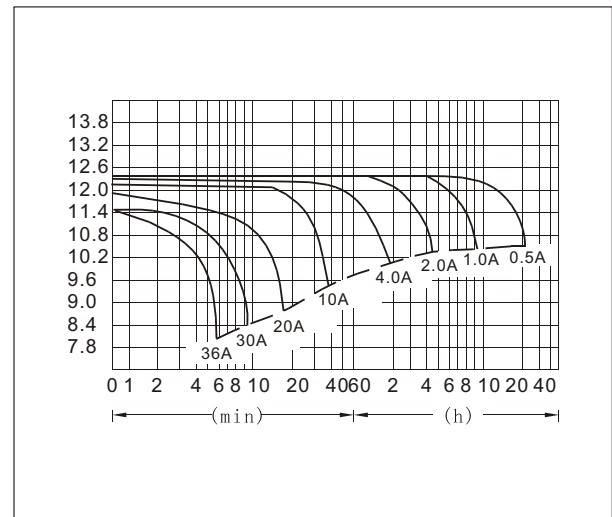
## Terminal Type (mm)



## Characteristics

|  |                                    |  |
|--|------------------------------------|--|
| Capacity<br>25°C(77°F)                         | 20 hour rate(0.50 A)               | 10.0 AH  |
|  | 10 hour rate(0.92 A)               | 9.20 AH  |
|  | 5 hour rate(1.70 A)                | 8.50 AH  |
|  | 1 hour rate(6.00 A)                | 6.00 AH  |
|  | 1.5 hour discharge to 10.5V        | 4.3 A  |
| Internal Resistance                            | Full charged Battery at 25°C(77°F) | 19 mΩ  |
| Capacity affected by Temperature (20hour rate) | 40°C(104°F)                        | 102%   |
|  | 25°C(77°F)                         | 100%   |
|  | 0°C(32°F)                          | 85%  |
|  | -15°C(5°F)                         | 65%  |
| Self-Discharge at 25°C(77°F)                   | Capacity after 3 month storage     | 91%  |
|  | Capacity after 6 month storage     | 82%  |
|  | Capacity after 12 month storage    | 64%  |
| Terminal                                       | T2                                 |  |
| Charge (constant Voltage)                      | Cycle                              | Initial Charging Current less than 4.00A<br>Voltage 14.40-14.70V |
|  | Float                              | Voltage 13.50-13.80V   |

## Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

| Time   | 5min | 10min | 15min | 30min | 1h   | 2h  | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|--------|------|-------|-------|-------|------|-----|------|------|------|------|------|------|
| 9.60V  | A    | 36.0  | 23.6  | 17.5  | 11.5 | 6.0 | 3.50 | 2.58 | 2.07 | 1.75 | 1.16 | 0.52 |
|        | W    | 374   | 253   | 188   | 124  | 65  | 38.4 | 28.7 | 23.3 | 20.0 | 13.3 | 6.0  |
| 10.20V | A    | 33.0  | 22.6  | 16.1  | 10.9 | 5.6 | 3.36 | 2.50 | 2.00 | 1.72 | 1.14 | 0.50 |
|        | W    | 355   | 253   | 180   | 123  | 64  | 38.7 | 29.0 | 23.3 | 20.0 | 13.3 | 6.0  |
| 10.50V | A    | 30.0  | 21.1  | 15.0  | 10.6 | 5.5 | 3.29 | 2.46 | 1.90 | 1.71 | 1.13 | 0.50 |
|        | W    | 330   | 240   | 171   | 122  | 63  | 38.2 | 28.6 | 22.3 | 19.9 | 13.3 | 6.0  |
| 10.80V | A    | 28.9  | 20.2  | 14.0  | 10.3 | 5.3 | 3.21 | 2.42 | 1.87 | 1.63 | 1.10 | 0.49 |
|        | W    | 324   | 233   | 161   | 119  | 61  | 37.6 | 28.5 | 22.0 | 19.2 | 13.0 | 6.0  |
| 11.10V | A    | 26.7  | 19.0  | 13.0  | 10.0 | 5.1 | 3.13 | 2.29 | 1.83 | 1.55 | 1.07 | 0.48 |
|        | W    | 303   | 220   | 151   | 117  | 60  | 37.0 | 27.2 | 21.8 | 18.5 | 12.8 | 6.0  |