



# SWE12800(12V80AH)



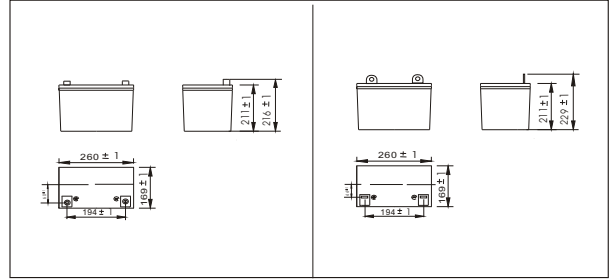
### Specifications

|                               |              |                          |
|-------------------------------|--------------|--------------------------|
| Nominal Voltage               |              | 12V                      |
| Rated capacity (10 hour rate) |              | 80 Ah                    |
| Dimensions                    | Total Height | T33 228 mm (8.98 inches) |
|                               |              | T16 216 mm (8.50 inches) |
|                               | Height       | 210 mm (8.27 inches)     |
|                               | Length       | 260 mm (10.24 inches)    |
| Width                         |              | 169mm (6.65 inches)      |
| Weight Approx                 |              | 23.5Kg (51.80lbs)        |

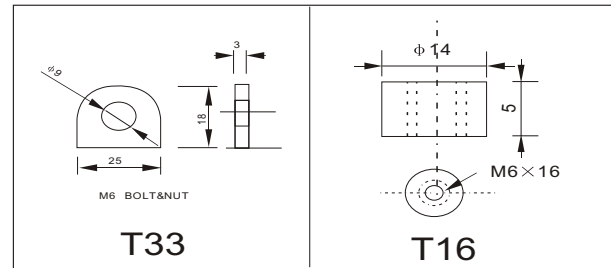
### Characteristics

|  |                                    |   |
|--|------------------------------------|---|
| Capacity<br>25°C(77°F)                         | 10 hour rate(8.0A)                 | 80 AH   |
|  | 5 hour rate(12.8A)                 | 64 AH   |
|  | 1 hour rate(48.0A)                 | 48 AH   |
| Internal Resistance                            | Full charged Battery at 25°C(77°F) | Approx 4.9 mΩ   |
| Capacity affected by Temperature (10hour 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                                       |                                    | T33 T16   |
| Charge (constant Voltage)                      | Cycle                              | Initial Charging Current less than 32 A<br>Voltage 14.10-14.40V |
|  | Float                              | Voltage 13.50-13.80V  |

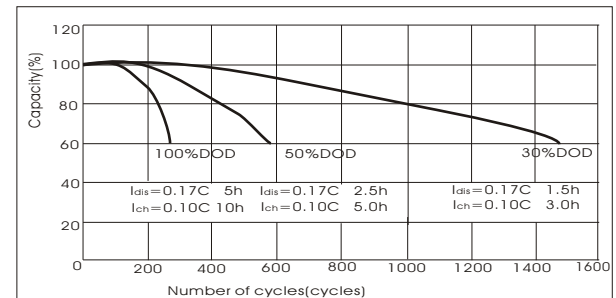
### Outer dimensions (mm)



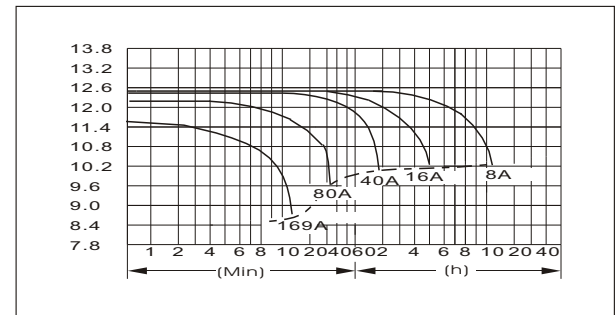
### Terminal Type (mm)



### Curves of cycle life(25°C)



### 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 | 256  | 169   | 136   | 91.2  | 48.0 | 28.0 | 20.6 | 16.0 | 13.2 | 9.36 | 8.40 | 4.54 |
|        | W | 2644 | 1803  | 1459  | 981   | 518  | 307  | 229  | 180  | 150  | 107  | 97   | 52.7 |
| 10.20V | A | 248  | 152   | 128   | 87.2  | 45.1 | 26.7 | 20.0 | 15.6 | 13.0 | 9.12 | 8.24 | 4.40 |
|        | W | 2650 | 1701  | 1434  | 979   | 510  | 308  | 232  | 181  | 151  | 107  | 97   | 51.6 |
| 10.50V | A | 240  | 136   | 112   | 81.6  | 43.7 | 26.1 | 19.5 | 15.4 | 12.8 | 9.04 | 8.08 | 4.40 |
|        | W | 2622 | 1550  | 1279  | 939   | 506  | 302  | 227  | 180  | 150  | 106  | 96   | 52.0 |
| 10.80V | A | 231  | 128   | 104   | 75.2  | 42.2 | 25.4 | 19.0 | 15.1 | 12.5 | 8.80 | 8.00 | 4.32 |
|        | W | 2596 | 1481  | 1200  | 871   | 492  | 298  | 224  | 179  | 148  | 104  | 95   | 51.5 |
| 11.10V | A | 224  | 120   | 96    | 67.2  | 40.8 | 24.8 | 18.4 | 14.7 | 12.2 | 8.56 | 7.60 | 4.08 |
|        | W | 2536 | 1393  | 1119  | 786   | 480  | 293  | 219  | 175  | 145  | 103  | 91.7 | 49.4 |