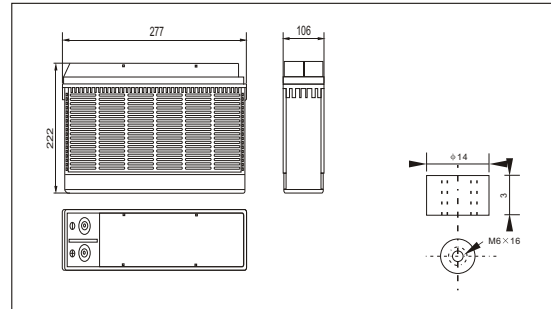




SWF12550(12V55AH)



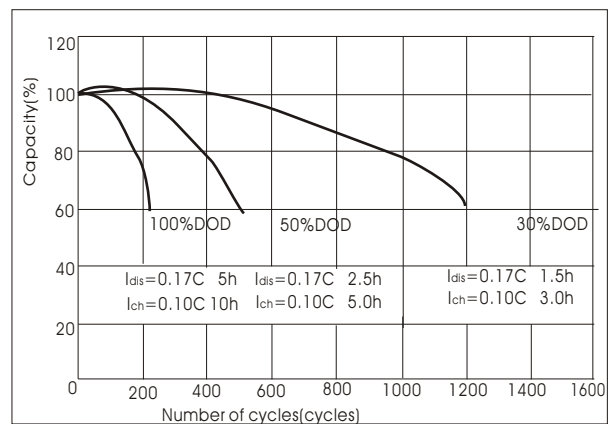
Outer dimensions (mm)



Specifications

| | | |
|-------------------------------|--------------|----------------------|
| Nominal Voltage | | 12V |
| Rated capacity (10 hour rate) | | 55Ah |
| Dimensions | Total Height | 222 mm (8.74 inches) |
| | Height | 222 mm (8.74 inches) |
| | Length | 277 mm (10.9 inches) |
| | Width | 106 mm (4.17 inches) |
| Weight Approx | | 17.0 Kg (37.4 lbs) |

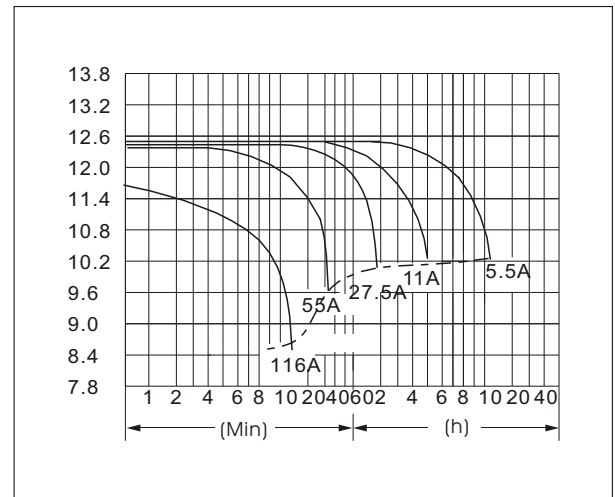
Curves of cycle life(25°C)



Characteristics

| | | |
|--|------------------------------------|--|
| Capacity 25°C(77°F) | 10 hour rate(5.5 A) | 55 AH |
| | 5 hour rate(8.8 A) | 44AH |
| | 1 hour rate(33 A) | 33 AH |
| | 1.5 hour discharge to 10.5V | 22 A |
| Internal Resistance | Full charged Battery at 25°C(77°F) | 6 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 | T16 | |
| Charge (constant Voltage) | Cycle | Initial Charging Current less than 22A Voltage 14.10-14.40V |
| | 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 | 176 | 116 | 94 | 62.7 | 33.0 | 19.3 | 14.1 | 11.0 | 9.1 | 6.44 | 5.78 | 3.12 |
| | w | 1818 | 1239 | 1003 | 674 | 356 | 211 | 157 | 124 | 103 | 74 | 67 | 36.3 |
| 10.20V | A | 171 | 105 | 88 | 60.0 | 31.0 | 18.4 | 13.8 | 10.7 | 8.9 | 6.27 | 5.67 | 3.03 |
| | w | 1822 | 1169 | 986 | 673 | 351 | 212 | 159 | 125 | 104 | 73 | 67 | 35.5 |
| 10.50V | A | 165 | 94 | 77 | 56.1 | 30.0 | 17.9 | 13.4 | 10.6 | 8.8 | 6.22 | 5.56 | 3.03 |
| | w | 1802 | 1066 | 879 | 646 | 348 | 208 | 156 | 124 | 103 | 73 | 66 | 35.8 |
| 10.80V | A | 159 | 88 | 72 | 51.7 | 29.0 | 17.5 | 13.1 | 10.4 | 8.6 | 6.05 | 5.50 | 2.97 |
| | w | 1785 | 1018 | 825 | 599 | 338 | 205 | 154 | 123 | 101 | 72 | 65 | 35.4 |
| 11.10V | A | 154 | 83 | 66 | 46.2 | 28.1 | 17.1 | 12.7 | 10.1 | 8.4 | 5.89 | 5.23 | 2.81 |
| | w | 1743 | 958 | 770 | 541 | 330 | 202 | 150 | 121 | 100 | 70 | 63.1 | 34.0 |