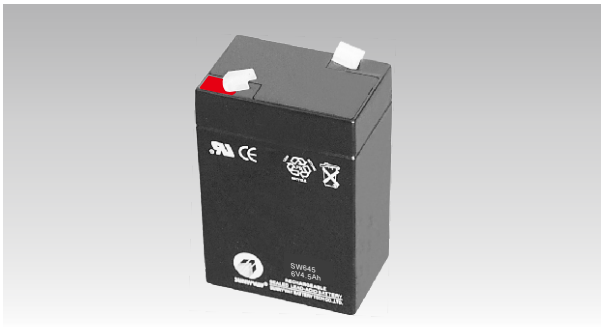
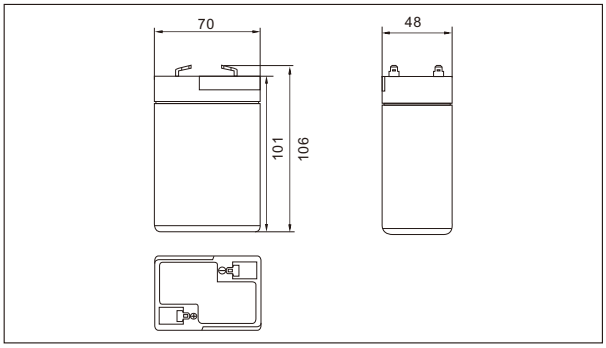
# SHENZHEN SUNNYWAY BATTERY TECH CO.,LTD.

## SW645(6V4.5AH)



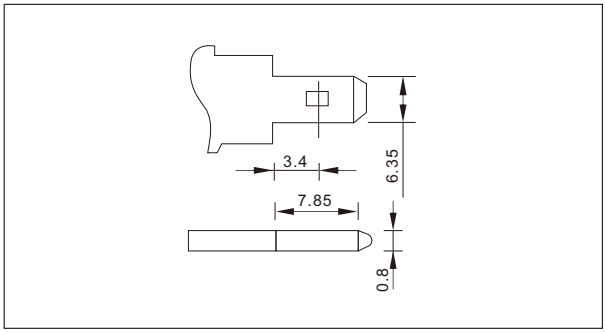
## Outer dimensions (mm)




## Specifications

| | | |
|---|---|---|
| Nominal Voltage | | 6 V |
| Rated capacity (20 hour rate) | | 4.5 Ah |
| Dimensions | Total Height | 106 mm(4.17 inches) |
| | Height | 101 mm(3.98 inches) |
| | Length | 70 mm(2.76 inches) |
| | Width | 48 mm(1.89 inches) |
| Weight Approx | | 0.77 Kg(1.69 lbs) |

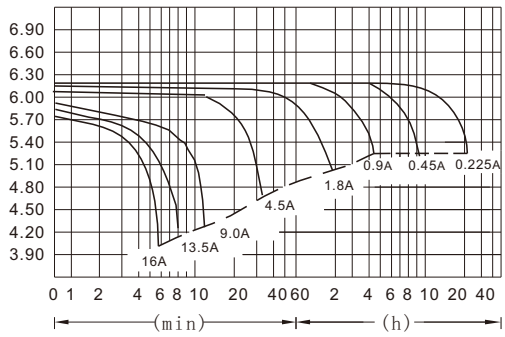
## Terminal Type (mm)




## Characteristics

| | | |
|---|---|---|
| Capacity 25℃(77℉) | 20 hour rate(0.225A) | 4.50 AH |
| | 10 hour rate(0.41A) | 4.10 AH |
| | 5 hour rate(0.76A) | 3.80 AH |
| | 1 hour rate(2.70A) | 2.70 AH |
| | 1.5 hour discharge to 5.25 V | 1.8 A |
| Internal Resistance | Full charged Battery at 25℃(77℉) | 31 mΩ |
| Capacity affected by Temperature (20hour rate) | 40℃(104℉) | 102% |
| | 25℃(77℉) | 100% |
| | 0℃(32℉) | 85% |
| | -15℃(5℉) | 65% |
| Self-Discharge at 25℃(77℉) | Capacity after 3 month storage | 91% |
| | Capacity after 6 month storage | 82% |
| | Capacity after 12 month storage | 64% |
| Terminal | T1 | |
| Charge (constant Voltage) Cycle | Initial Charging Current less than 1.35A Voltage 7.05-7.20 V | |
| Charge (constant Voltage) Float | Voltage 6.75-6.90 V | |

## Discharge Curves 25℃(77℉)




| Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
| 4.80V | A | 16.20 | 10.15 | 7.88 | 5.18 | 2.70 | 1.58 | 1.16 | 0.93 | 0.79 | 0.52 | 0.43 | 0.23 |
| | W | 95.5 | 60.0 | 45.4 | 27.5 | 15.6 | 9.1 | 6.70 | 5.38 | 4.57 | 3.01 | 2.47 | 1.35 |
| 5.10V | A | 14.85 | 9.94 | 7.24 | 4.91 | 2.53 | 1.51 | 1.13 | 0.90 | 0.77 | 0.51 | 4.18 | 0.23 |
| | W | 89.9 | 59.1 | 42.7 | 27.3 | 14.6 | 8.7 | 6.52 | 5.21 | 4.48 | 2.96 | 2.42 | 1.31 |
| 5.25V | A | 13.77 | 9.50 | 6.75 | 4.76 | 2.45 | 1.48 | 1.11 | 0.86 | 0.77 | 0.51 | 0.41 | 0.23 |
| | W | 86.8 | 55.1 | 40.8 | 27.0 | 14.2 | 8.6 | 6.40 | 4.95 | 4.45 | 2.93 | 2.40 | 1.30 |
| 5.40V | A | 12.54 | 9.08 | 6.30 | 4.55 | 2.37 | 1.44 | 1.09 | 0.84 | 0.73 | 0.49 | 0.40 | 0.22 |
| | W | 82.9 | 53.4 | 39.3 | 26.9 | 13.8 | 8.4 | 6.33 | 4.89 | 4.26 | 2.81 | 2.34 | 1.28 |
| 5.55V | A | 10.85 | 8.55 | 5.85 | 4.23 | 2.29 | 1.41 | 1.03 | 0.82 | 0.70 | 0.48 | 0.39 | 0.21 |
| | W | 64.6 | 51.7 | 37.4 | 26.7 | 13.6 | 8.3 | 6.14 | 4.88 | 4.16 | 2.72 | 2.30 | 1.27 |