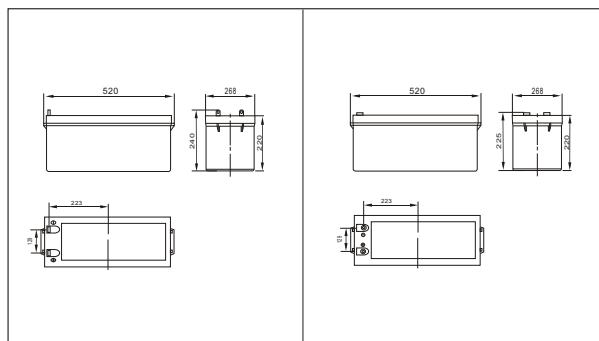




## SW122300(12V230AH)



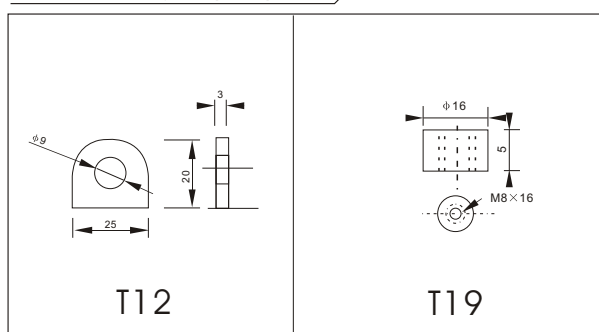
### Outer dimensions (mm)



### Specifications

|                               |              |                                                      |
|-------------------------------|--------------|------------------------------------------------------|
| Nominal Voltage               |              | 12V                                                  |
| Rated capacity (10 hour rate) |              | 230 Ah                                               |
| Dimensions                    | Total Height | T12 240 mm (9.44 inches)<br>T19 225 mm (8.85 inches) |
|                               | Height       | 220 mm (8.66 inches)                                 |
|                               | Length       | 520 mm (20.5 inches)                                 |
|                               | Width        | 268 mm (10.55 inches)                                |
| Weight Approx                 |              | 66.0 Kg (145.2 lbs)                                  |

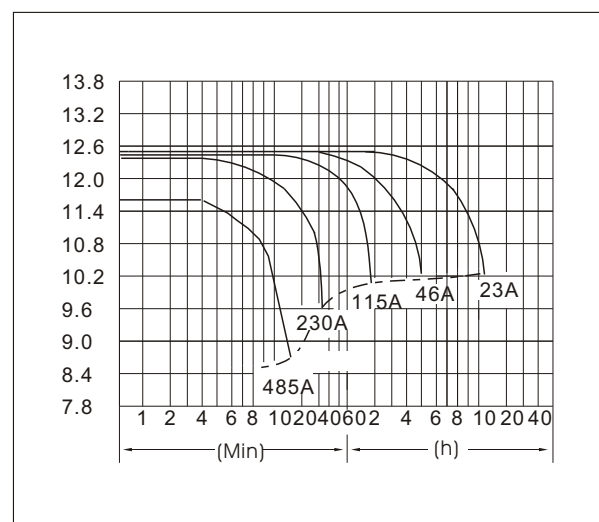
### Terminal Type (mm)



### Characteristics

|                                                |                                                                                                     |                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Capacity<br>25°C(77°F)                         | 10 hour rate(23.0 A)<br>5 hour rate(36.8 A)<br>1 hour rate(138 A)                                   | 230 AH<br>184AH<br>138 AH                                       |
| Internal Resistance                            | Full charged Battery at 25°C(77°F)                                                                  | approx 2.5mΩ                                                    |
| Capacity affected by Temperature (10hour rate) | 40°C(104°F)<br>25°C(77°F)<br>0°C(32°F)<br>-15°C(5°F)                                                | 102%<br>100%<br>85%<br>65%                                      |
| Self-Discharge at 25°C(77°F)                   | Capacity after 3 month storage<br>Capacity after 6 month storage<br>Capacity after 12 month storage | 91%<br>82%<br>64%                                               |
| Terminal                                       | T12 T19                                                                                             |                                                                 |
| Charge (constant Voltage)                      | Cycle                                                                                               | Initial Charging Current less than 92 A<br>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 | 737  | 485   | 391   | 262.2 | 138.0 | 80.5 | 59.1 | 46.0 | 38.0 | 26.91 | 24.15 | 13.04 |
|        | W | 7603 | 5183  | 4195  | 2819  | 1490  | 884  | 658  | 518  | 431  | 308   | 279   | 151.6 |
| 10.20V | A | 713  | 438   | 368   | 250.7 | 129.7 | 76.8 | 57.5 | 44.9 | 37.3 | 26.22 | 23.69 | 12.65 |
|        | W | 7620 | 4890  | 4123  | 2814  | 1467  | 885  | 666  | 522  | 434  | 307   | 278   | 148.4 |
| 10.50V | A | 690  | 392   | 322   | 234.6 | 125.6 | 75.0 | 56.1 | 44.2 | 36.8 | 25.99 | 23.23 | 12.65 |
|        | W | 7537 | 4456  | 3677  | 2700  | 1454  | 870  | 654  | 517  | 431  | 306   | 275   | 149.5 |
| 10.80V | A | 665  | 369   | 299   | 216.2 | 121.4 | 73.1 | 54.7 | 43.5 | 35.9 | 25.30 | 23.00 | 12.42 |
|        | W | 7463 | 4257  | 3450  | 2505  | 1414  | 857  | 645  | 513  | 424  | 300   | 273   | 147.9 |
| 11.10V | A | 643  | 346   | 276   | 193.2 | 117.3 | 71.3 | 52.9 | 42.3 | 35.0 | 24.61 | 21.85 | 11.73 |
|        | W | 7290 | 4006  | 3218  | 2260  | 1379  | 843  | 628  | 504  | 417  | 295   | 263.8 | 142.2 |