

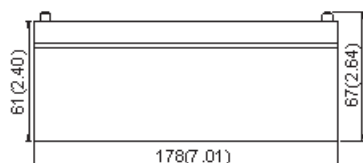
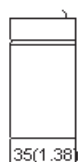
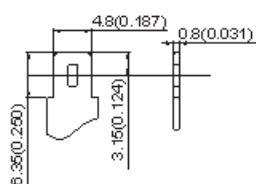
# TECHNICAL DATA SHEET

**DAS12-2.2**



## ● Specifications

|                    |              |                     |
|--------------------|--------------|---------------------|
| Nominal Voltage    |              | 12V                 |
| Rated Capacity     |              | 2.3Ah               |
| Dimensions         | Total Height | 2.64 inches (67mm)  |
|                    | Height       | 2.40 inches (61mm)  |
|                    | Length       | 7.01 inches (178mm) |
|                    | Width        | 1.38 inches (35mm)  |
| Approximate Weight |              | 1.98 lbs. (0.9kg)   |



## ● Characteristic

|                                                      |                                    |                                              |
|------------------------------------------------------|------------------------------------|----------------------------------------------|
| Capacity<br>77°F(25°C)                               | 20h rate (0.115A)                  | 2.3Ah                                        |
|                                                      | 10h rate (0.21A)                   | 2.1Ah                                        |
|                                                      | 5h rate (0.37A)                    | 1.96Ah                                       |
|                                                      | 1h rate (1.56A)                    | 1.38Ah                                       |
|                                                      | 15 min rate (4.16A)                | 1.04Ah                                       |
| Internal Resistance                                  | Full Charged Battery<br>77°F(25°C) | 65m Ω                                        |
| Capacity<br>Affected by<br>Temperature<br>(20h rate) | 104°F(40°C)                        | 102%                                         |
|                                                      | 77°F(25°C)                         | 100%                                         |
|                                                      | 32°F(0°C)                          | 85%                                          |
|                                                      | 5°F(-15°C)                         | 65%                                          |
| Self-Discharge<br>68°F(20°C)<br>(Capacity after)     | 3 month storage                    | 90%                                          |
|                                                      | 6 month storage                    | 80%                                          |
|                                                      | 12 month storage                   | 60%                                          |
| Max. Discharge<br>Current 77°F(25°C)                 | 34.5A(5s)                          |                                              |
| Terminal                                             | T1                                 |                                              |
| Charge<br>(Constant Voltage, 25°C)                   | Cycle                              | 14.5~14.9V(-24mV/°C)<br>max. current: 0.69 A |
|                                                      | Float                              | 13.6~13.8V(-18mV/°C)                         |

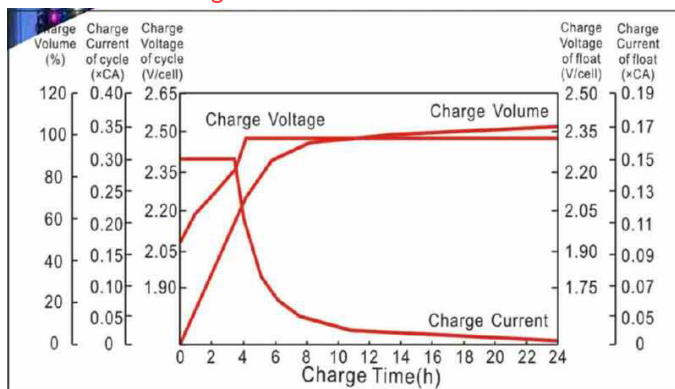
### Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 3h   | 5h   | 10h  | 20h   |
|----------|------|-------|-------|-------|-------|------|------|------|-------|
| 9.60V    | 9.20 | 5.80  | 4.50  | 2.60  | 1.54  | 0.59 | 0.40 | 0.21 | 0.117 |
| 10.2V    | 8.74 | 5.51  | 4.32  | 2.50  | 1.48  | 0.58 | 0.39 | 0.2  | 0.116 |
| 10.5V    | 8.22 | 5.18  | 4.10  | 2.37  | 1.40  | 0.57 | 0.38 | 0.2  | 0.115 |

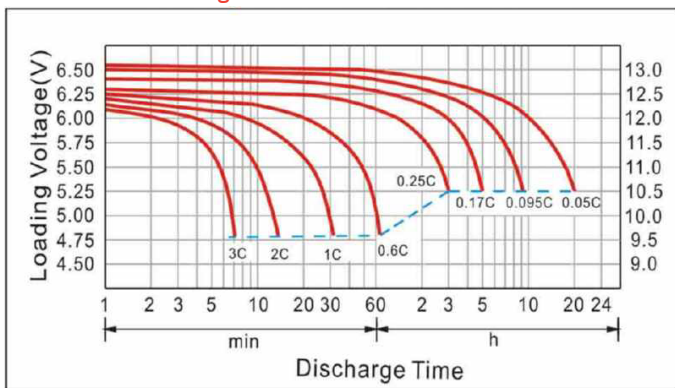
### Constant Wattage Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 3h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|
| 9.60V    | 103  | 65.4  | 51.3  | 29.8  | 17.8  | 6.99 | 4.73 | 2.67 | 1.34 |
| 10.2V    | 97.5 | 62.2  | 49.2  | 28.6  | 17.1  | 6.89 | 4.66 | 2.64 | 1.33 |
| 10.5V    | 91.7 | 58.4  | 46.8  | 27.2  | 16.3  | 6.75 | 4.56 | 2.66 | 1.32 |

Charge Characteristics Curve



Discharge characteristics Curve



Cycle service life in relation to depth of discharge

