

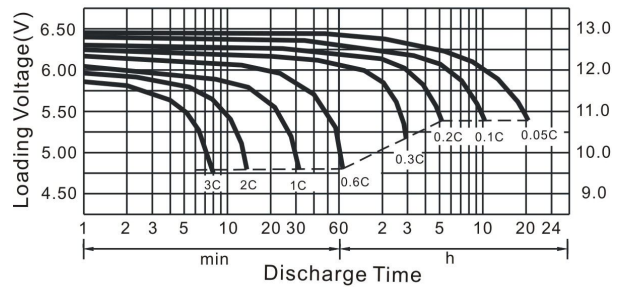
● Specifications

| | | |
|---|---------------------|---------------------|
| Nominal Voltage | | 12V |
| Rated Capacity 77°F(25°C) (10HR) | | 33.0Ah |
| Dimensions (mm/inch) | Length | 195 (7.68) |
| | Width | 130 (5.12) |
| | Height | 155 (6.10) |
| | Total Height | 180 (7.09) |
| Approx. Weight (kg/lbs) | | 10.5 (23.15) |
| Terminal | | T8/T11 |

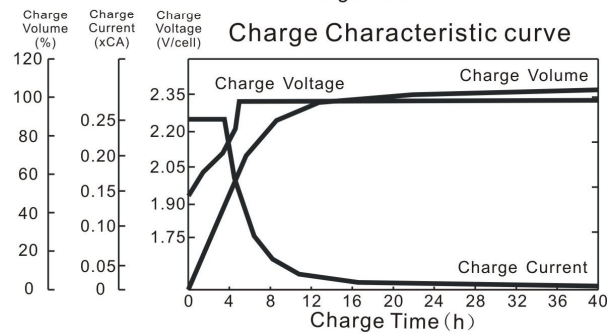
● Characteristic

| | | |
|---|--|--|
| Capacity 77°F(25°C) | 20HR (1.81A) | 36.2Ah |
| | 10HR (3.36A) | 33.6Ah |
| | 5HR (5.77A) | 28.8Ah |
| | 1HR (19.14A) | 19.1Ah |
| | 15 min rate (57.75A) | 14.4Ah |
| Internal Resistance | Full Charged Battery 77°F(25°C) | Approx. 10.5mΩ |
| Temperature dependence of capacity (10HR) | 104°F(40°C) | 102% |
| | 77°F(25°C) | 100% |
| | 32°F(0°C) | 85% |
| | 5°F(-15°C) | 65% |
| Self-Discharge 68°F(20°C) (Capacity after) | 3 months | 90% |
| | 6 months | 80% |
| | 12 months | 60% |
| Max. Discharge Current, 77°F(25°C) | | 330A(5s) |
| Design life for deep cycle(DOD80%), 77°F(25°C) | | 300 Cycles |
| Constant Voltage Charge, 77°F(25°C) | Cycle | 14.4-14.7V(-24mV/°C) max. current: 8.25 A |
| | Float | 13.6-13.8V(-18mV/°C) |

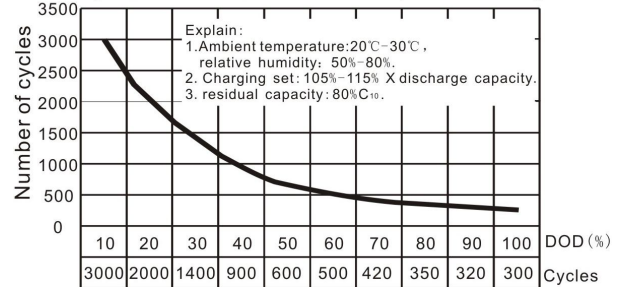
Discharge Characteristics 77°F (25°C)



Charge Characteristic curve



Cycle service life in relation to depth of discharge



Constant Current Discharge Characteristics (A), 77°F(25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V/cell | 112.2 | 92.6 | 57.7 | 33.0 | 19.92 | 12.36 | 9.25 | 6.09 | 4.03 | 3.51 | 1.87 |
| 1.70V/cell | 106.6 | 69.0 | 55.1 | 31.6 | 19.48 | 12.11 | 9.07 | 5.98 | 3.97 | 3.46 | 1.85 |
| 1.75V/cell | 101.6 | 64.7 | 54.2 | 30.9 | 19.14 | 11.88 | 8.90 | 5.87 | 3.92 | 3.41 | 1.83 |
| 1.80V/cell | 95.4 | 59.8 | 53.2 | 30.3 | 18.83 | 11.67 | 8.74 | 5.77 | 3.86 | 3.36 | 1.81 |

Constant Wattage Discharge Characteristics (Watt), 77°F(25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2H | 3H | 5H | 8H | 10H | 20H |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1.60V/cell | 199.1 | 131.8 | 105.8 | 60.7 | 36.85 | 23.07 | 17.43 | 11.59 | 7.22 | 6.85 | 3.64 |
| 1.70V/cell | 191.0 | 126.4 | 102.0 | 58.6 | 36.38 | 22.80 | 17.23 | 11.47 | 7.68 | 6.82 | 3.64 |
| 1.75V/cell | 183.8 | 119.7 | 101.1 | 57.9 | 36.05 | 22.57 | 17.07 | 11.36 | 7.64 | 6.77 | 3.63 |
| 1.80V/cell | 174.1 | 111.5 | 100.2 | 57.4 | 35.77 | 22.37 | 16.90 | 12.25 | 7.59 | 6.73 | 3.63 |