

6-DZF-20.3

Applications

- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

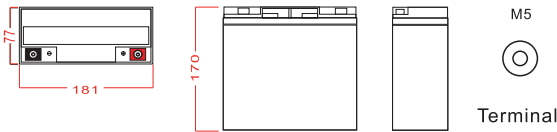


General Features

- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate



Dimension: 181(L)×77(W)×170(H)×170(TH) Unit: mm



Specification

| | |
|--------------------|------------------------|
| Nominal Voltage | 12V |
| Nominal Capacity | 20Ah |
| Design life | 5 years |
| Terminal | M5 |
| Approx. Weight | Approx6.15kg (13.6lbs) |
| Container Material | ABS |

| | | |
|----------------|--------|------------------------------|
| Rated Capacity | 16.0Ah | 1Hour Rate (16.0A to 10.5V) |
| | 20.3Ah | 2Hour Rate (10.15A to 10.5V) |
| | 24.0Ah | 10Hour Rate (2.40A to 10.5V) |
| | 25.0Ah | 20Hour Rate (1.26A to 10.5V) |

| | | |
|-----------------------|------------|-----------------------|
| Operating Temperature | Discharge: | -20 ~50°C (-4~ 122°F) |
| | Charge: | -20 ~50°C (-4~ 122°F) |
| | Storage: | -20 ~50°C (-4~ 122°F) |

| | | |
|-----------------------|--------------------|------------------|
| Charge Method (25 °C) | Float Use: | 13.7-13.9V@25°C |
| | Cycle Use: | 14.7-14.9V,@25°C |
| | Max charge current | 4.0A |

| | |
|----------------|---|
| Self discharge | 3% of capacity declined per month at 25°C |
|----------------|---|

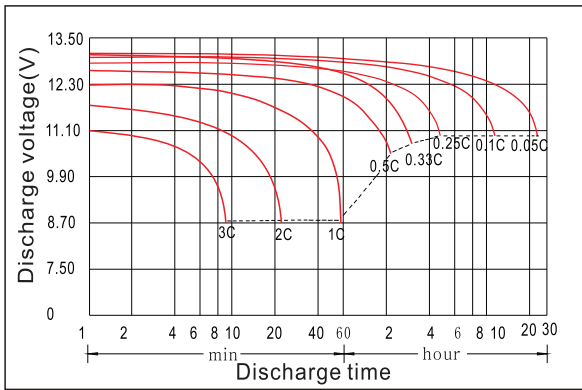
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|------|-------|------|------|------|------|-------|
| 1.60V | 93.3 | 50.0 | 30.0 | 16.5 | 10.41 | 7.34 | 4.73 | 3.04 | 2.47 | 1.284 |
| 1.65V | 90.7 | 48.5 | 29.5 | 16.4 | 10.33 | 7.27 | 4.70 | 3.02 | 2.44 | 1.276 |
| 1.70V | 87.2 | 47.5 | 29.0 | 16.3 | 10.24 | 7.17 | 4.62 | 2.97 | 2.42 | 1.268 |
| 1.75V | 79.9 | 45.9 | 28.6 | 16.0 | 10.15 | 7.10 | 4.60 | 2.95 | 2.40 | 1.260 |
| 1.80V | 71.6 | 42.7 | 27.5 | 15.6 | 9.97 | 7.06 | 4.48 | 2.88 | 2.37 | 1.252 |
| 1.85V | 63.9 | 38.3 | 25.1 | 14.5 | 9.44 | 6.64 | 4.25 | 2.72 | 2.30 | 1.228 |

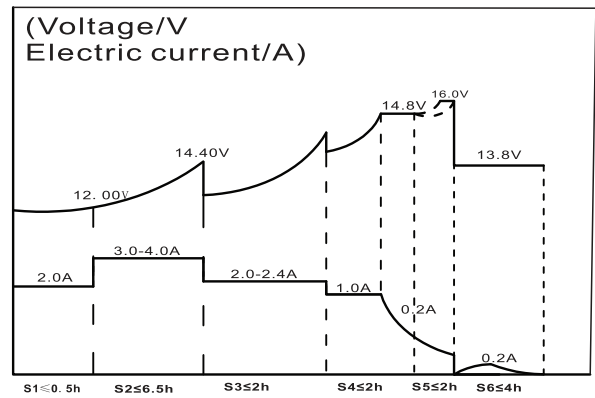
Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-------|------|------|-------|------|------|------|------|
| 1.60V | 141.6 | 80.1 | 49.2 | 28.3 | 17.9 | 12.67 | 8.14 | 5.36 | 4.30 | 2.30 |
| 1.65V | 136.4 | 78.5 | 48.9 | 28.0 | 17.9 | 12.50 | 8.11 | 5.31 | 4.28 | 2.29 |
| 1.70V | 135.6 | 77.8 | 48.8 | 27.8 | 17.8 | 12.42 | 8.05 | 5.23 | 4.21 | 2.27 |
| 1.75V | 126.1 | 77.2 | 48.6 | 27.6 | 17.7 | 12.38 | 7.98 | 5.21 | 4.18 | 2.26 |
| 1.80V | 116.6 | 72.8 | 47.3 | 27.4 | 17.6 | 12.34 | 7.92 | 5.09 | 4.12 | 2.25 |
| 1.85V | 103.6 | 65.3 | 43.3 | 25.5 | 16.9 | 11.75 | 7.55 | 4.85 | 4.05 | 2.23 |

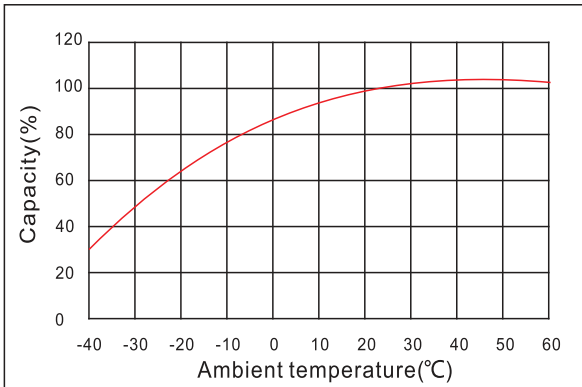
Discharge characteristic



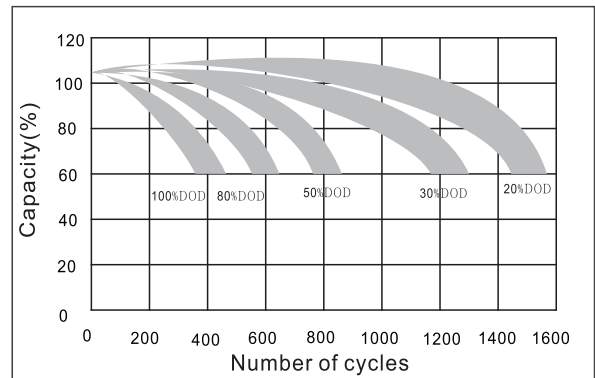
Charging characteristic



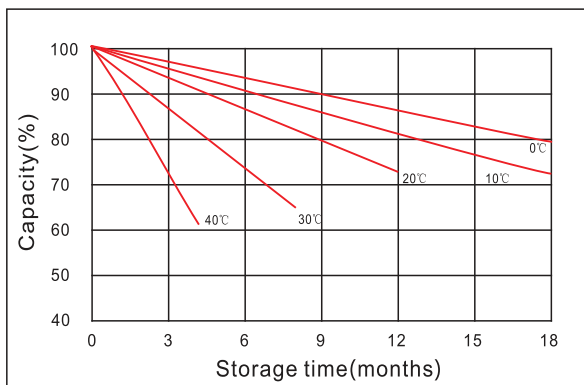
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

