

# JS12-7.0

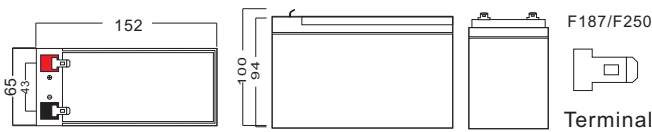


## General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 152(L)×65(W)×94(H)×100(TH) Unit: mm



## JS Series lead-acid battery

### Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

### Specification

|                        |   |
|------------------------|---|
| Nominal Voltage        | 12V   |
| Nominal Capacity       | 7.0Ah   |
| Design life            | 5 years   |
| Terminal               | F187/F250   |
| Approx. Weight         | Approx 2.02kg (4.45lbs)                           |
| Container Material     | ABS   |
| Rated Capacity         | <b>7.00Ah</b> 20Hour Rate (0.35A to 10.5V)        |
|                        | <b>5.43Ah</b> 3Hour Rate (1.81A to 10.5V)         |
|                        | <b>4.62Ah</b> 1Hour Rate (4.62A to 9.60V)         |
| Internal resistance    | Full charged at 25°C: 30.0 mΩ                     |
| Max. Discharge Current | 105A(5S)  |
| Operating Temperature  | Discharge: -20 ~50°C(-4~ 122°F)                   |
|                        | Charge: -20 ~50°C(-4~ 122°F)                      |
|                        | Storage: -20 ~50°C(-4~ 122°F)                     |
| Charge current:        | Max.1.75A ; Recom.0.70A                           |
| Charge Method (25 °C)  | Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C)    |
|                        | Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C) |
|                        | Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)    |
| Self discharge         | 3% of capacity declined per month at 25°C         |

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

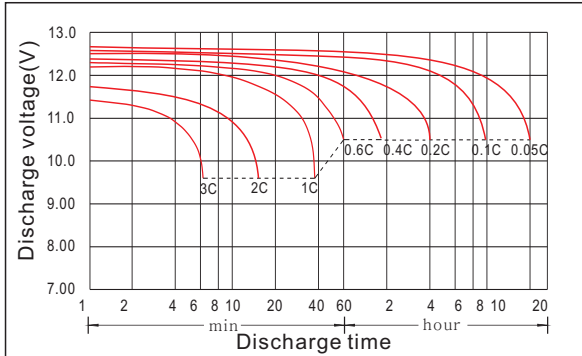
| FV/Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h    | 10h   | 20h   |
|---------|------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 1.60V   | 27.7 | 18.1  | 13.5  | 8.86  | 4.62 | 2.65 | 1.93 | 1.55 | 1.32 | 0.868 | 0.693 | 0.371 |
| 1.65V   | 27.5 | 17.4  | 12.4  | 8.41  | 4.34 | 2.54 | 1.88 | 1.50 | 1.29 | 0.854 | 0.686 | 0.364 |
| 1.70V   | 22.5 | 16.3  | 11.6  | 8.15  | 4.20 | 2.49 | 1.84 | 1.42 | 1.27 | 0.840 | 0.672 | 0.357 |
| 1.75V   | 20.9 | 15.5  | 10.8  | 7.96  | 4.05 | 2.43 | 1.81 | 1.40 | 1.22 | 0.819 | 0.658 | 0.350 |
| 1.80V   | 19.3 | 14.6  | 10.0  | 7.70  | 3.91 | 2.37 | 1.72 | 1.37 | 1.17 | 0.798 | 0.644 | 0.336 |

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

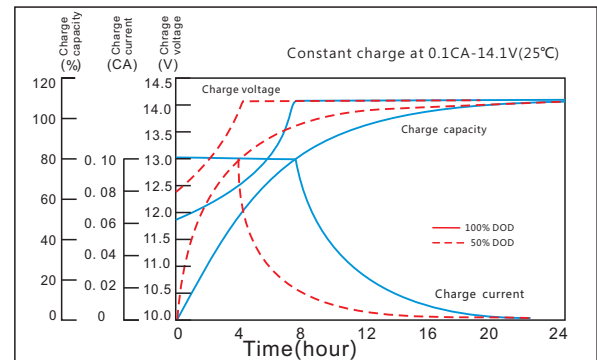
| FV/Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h   |
|---------|------|-------|-------|-------|------|------|------|------|------|------|------|-------|
| 1.60V   | 52.0 | 32.7  | 24.7  | 15.0  | 8.47 | 4.96 | 3.65 | 2.93 | 2.49 | 1.64 | 1.34 | 0.735 |
| 1.65V   | 48.0 | 30.9  | 23.2  | 14.9  | 7.97 | 4.77 | 3.55 | 2.84 | 2.44 | 1.61 | 1.32 | 0.715 |
| 1.70V   | 43.9 | 30.0  | 22.2  | 14.8  | 7.72 | 4.68 | 3.49 | 2.70 | 2.37 | 1.60 | 1.31 | 0.709 |
| 1.75V   | 39.8 | 29.1  | 21.4  | 14.7  | 7.50 | 4.57 | 3.44 | 2.66 | 2.32 | 1.53 | 1.28 | 0.694 |
| 1.80V   | 35.7 | 28.1  | 20.4  | 14.5  | 7.40 | 4.54 | 3.35 | 2.64 | 2.26 | 1.48 | 1.25 | 0.690 |

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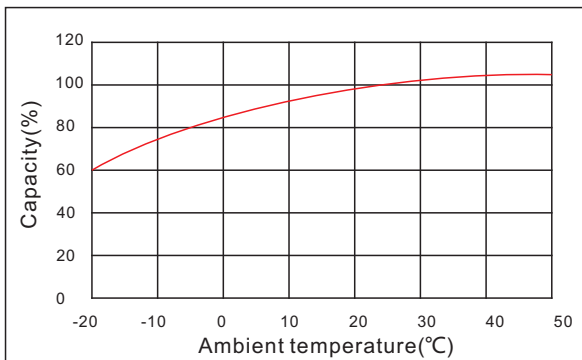
Discharge characteristic



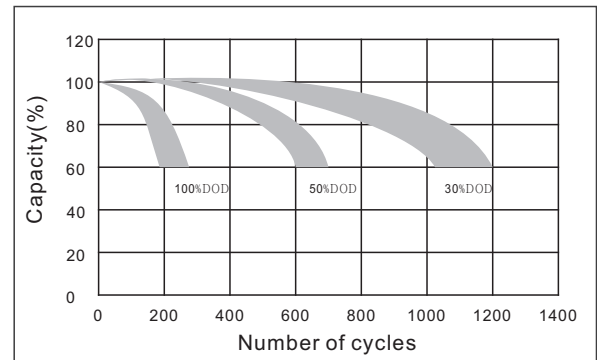
Charging characteristic



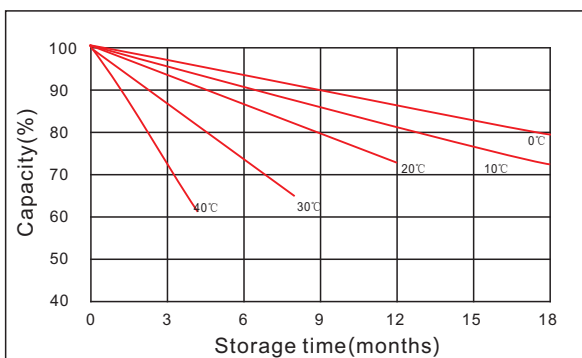
The effect of temperature on capacity



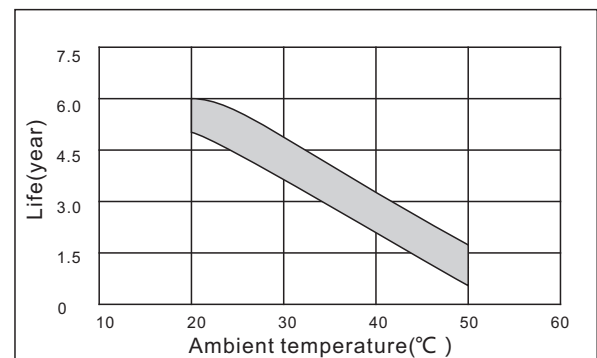
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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