

JS12-9.0



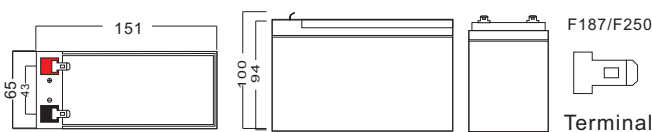
JS Series lead-acid battery

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: 151(L)×65(W)×94(H)×100(TH) Unit: mm



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 | 9.0Ah |
| Design life | 5 years |
| Terminal | F187/F250 |
| Approx. Weight | Approx 2.50kg (5.52lbs) |
| Container Material | ABS |
| Rated Capacity | 9.00Ah → 20Hour Rate (0.45A to 10.5V) |
| | 6.99Ah → 3Hour Rate (2.33A to 10.5V) |
| | 5.94Ah → 1Hour Rate (5.94A to 9.60V) |
| Internal resistance | Full charged at 25°C: 20.0 mΩ |
| Max. Discharge Current | 135A(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. 2.25A ; Recom.0.90A |
| Charge Method (25 °C) | Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C) |
| | Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C) |
| | Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C) |
| Self discharge | 3% of capacity declined per month at 25°C |

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

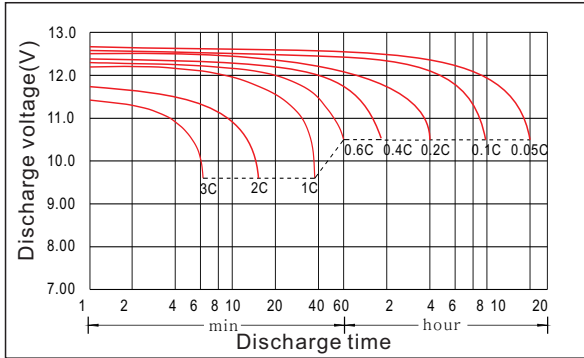
| FV/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|------|------|------|------|------|------|-------|-------|
| 1.60V | 35.6 | 23.3 | 17.4 | 11.4 | 5.94 | 3.40 | 2.48 | 1.99 | 1.69 | 1.12 | 0.891 | 0.477 |
| 1.65V | 35.4 | 22.3 | 15.9 | 10.8 | 5.58 | 3.27 | 2.41 | 1.93 | 1.66 | 1.10 | 0.882 | 0.468 |
| 1.70V | 29.0 | 21.0 | 14.9 | 10.5 | 5.40 | 3.20 | 2.37 | 1.83 | 1.64 | 1.08 | 0.864 | 0.459 |
| 1.75V | 26.9 | 20.0 | 13.9 | 10.2 | 5.21 | 3.12 | 2.33 | 1.80 | 1.57 | 1.05 | 0.846 | 0.450 |
| 1.80V | 24.8 | 18.8 | 12.9 | 9.90 | 5.03 | 3.04 | 2.21 | 1.76 | 1.50 | 1.03 | 0.828 | 0.432 |

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 | 66.9 | 42.0 | 31.8 | 19.2 | 10.9 | 6.38 | 4.70 | 3.77 | 3.20 | 2.11 | 1.73 | 0.945 |
| 1.65V | 61.7 | 39.8 | 29.9 | 19.1 | 10.2 | 6.14 | 4.56 | 3.65 | 3.14 | 2.07 | 1.69 | 0.920 |
| 1.70V | 56.4 | 38.6 | 28.5 | 19.0 | 9.93 | 6.02 | 4.49 | 3.47 | 3.05 | 2.05 | 1.68 | 0.912 |
| 1.75V | 51.2 | 37.4 | 27.5 | 18.8 | 9.65 | 5.88 | 4.43 | 3.42 | 2.99 | 1.97 | 1.64 | 0.893 |
| 1.80V | 45.9 | 36.2 | 26.3 | 18.7 | 9.51 | 5.84 | 4.31 | 3.39 | 2.91 | 1.90 | 1.61 | 0.887 |

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Discharge characteristic



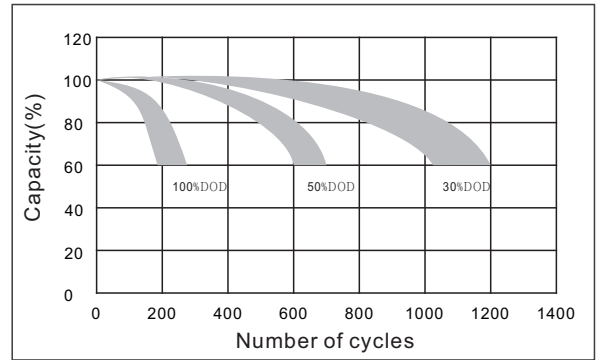
Charging characteristic



The effect of temperature on capacity



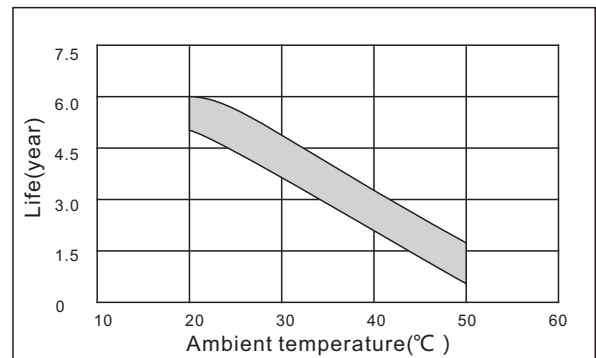
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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