

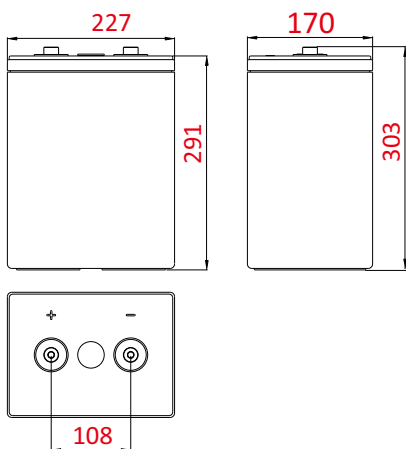
REXC series

REXC-400

Narada[®]



Dimension (mm)



Feature

- Design life 20 years
- Combine the advantage of lead acid battery and supercapacitor
- Ideal for PSOC cycle application
- High power, rapid charge/discharge
- Reduce sulfation of negative plate, excellent recharge acceptance performance
- Waterproof, anti-salt treatment, shockproof module installation design
- Comply with IEC60896, IEC61427 etc. standard

Application

- Renewable energy storage
- Smart power grids and microgrids system
- Distributed energy storage system
- Hybrid energy storage system such as solar and wind
- Home energy storage system
- Solar power generation grid/off-grid energy storage system
- Emergency lighting system
- Generator and battery hybrid energy system
- Other standby, cycling system

Parameter

| | |
|--------------------------------|---|
| Nominal Voltage | 2V |
| Capacity | 400Ah (10hr to 1.80V/cell @25°C) 480Ah (120hr to 1.85V/cell @25°C) |
| Typical Weight | 32kg |
| Internal Resistance | Approx 0.30mΩ |
| Short-Circuit Current | 6107A |
| Self Discharge | The residual capacity is above 90% after 90 days storage (25°C) |
| Temperature Ranges | Operation(recommended):15°C~25°C Operation(maximum):-40°C~50°C |
| Max. charging current | 120A |
| Max. constant charging current | 80A |
| Charge Voltage | Floating:2.25V (25°C) Equalizing/Cycle: 2.30V(25°C) |
| Terminal | M8 embedded copper |
| Terminal Hardware Torque | >10N·m |

Constant Current Discharge Characteristics Units: Amperes(25°C)

| End voltage per cell | 1hr | 3hr | 5hr | 8hr | 10hr | 24hr | 48hr | 72hr | 120hr |
|----------------------|-------|-------|------|------|------|------|------|------|-------|
| 1.75V | 226.2 | 104.0 | 72.2 | 50.6 | 42.1 | 18.8 | 9.70 | 6.60 | 4.20 |
| 1.80V | 211.9 | 100.8 | 70.5 | 49.6 | 41.2 | 18.5 | 9.50 | 6.50 | 4.10 |
| 1.83V | 198.4 | 97.5 | 68.9 | 48.7 | 40.3 | 18.1 | 9.30 | 6.40 | 4.00 |
| 1.85V | 191.3 | 95.6 | 68.2 | 48.2 | 40.1 | 17.9 | 9.20 | 6.30 | 4.00 |
| 1.88V | 183.2 | 93.6 | 67.5 | 47.6 | 39.8 | 17.7 | 9.20 | 6.10 | 4.00 |

Discharge Data with Constant Power Units: Watts per cell(25°C)

| End voltage per cell | 15min | 30min | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1.75V | 986.5 | 717.2 | 456.8 | 299.5 | 231.8 | 175.5 | 149.0 | 128.3 | 98.1 | 82.4 |
| 1.80V | 922.9 | 693.4 | 446.2 | 293.9 | 206.3 | 169.8 | 144.9 | 124.5 | 95.6 | 81.1 |
| 1.83V | 886.5 | 656.3 | 430.3 | 282.2 | 201.2 | 167.3 | 141.9 | 120.7 | 93.7 | 79.6 |
| 1.85V | 843.9 | 621.2 | 405.8 | 270.1 | 195.3 | 163.3 | 138.1 | 117.9 | 92.4 | 78.0 |
| 1.88V | 636.9 | 580.6 | 381.3 | 251.0 | 188.7 | 157.7 | 133.6 | 113.7 | 89.9 | 76.1 |

