

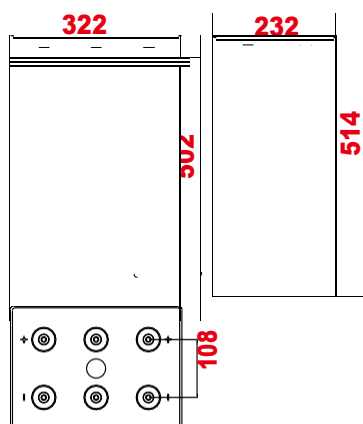
REXC series

REXC-1500

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
Capacity

2V
1500Ah (10hr to 1.80V/cell @25°C)
1800Ah (120hr to 1.85V/cell @25°C)

Typical Weight
Internal Resistance

110kg
Approx 0.12mΩ

Short-Circuit Current

16882A

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

450A

Max.constant charging current

300A

Charge Voltage

Floating: 2.25V (25°C)
Equalizing/Cycle: 2.30V (25°C)

Terminal

M8 embedded copper

Terminal Hardware Torque

>10N·m

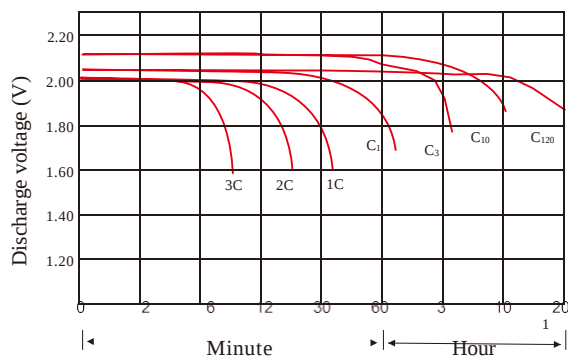
Constant Current Discharge Characteristics Units: Amperes(25°C)

End voltage per cell	1hr	3hr	5hr	8hr	10hr	24hr	48hr	72hr	120hr
1.75V	830.3	401.8	273.8	188.0	156.8	70.7	36.1	24.7	15.7
1.80V	788.6	392.8	267.5	184.5	154.7	69.2	35.7	24.4	15.5
1.83V	744.0	380.9	263.4	183.4	154.0	69.2	35.5	24.3	15.4
1.85V	696.4	360.3	250.7	177.1	148.4	67.2	34.2	23.4	15.0
1.88V	632.4	339.8	239.0	170.6	142.8	65.2	32.9	22.5	14.3

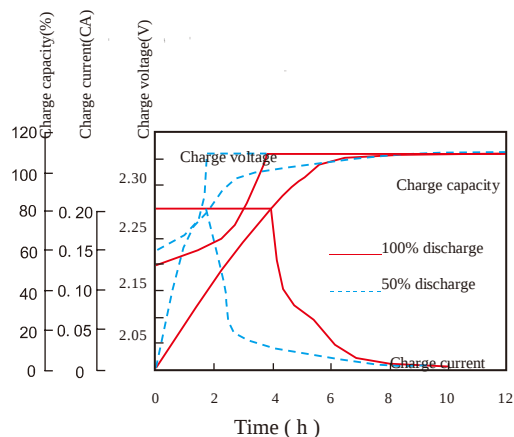
Discharge Data with Constant Power Units: Watts per cell(25°C)

End voltage per cell	15min	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.75V	3699	2295.9	1683.3	1062.1	837.9	670.3	566.0	491.5	406.6	342.6
1.80V	3480	2146.0	1549.6	1022.9	812.3	659.8	551.1	481.1	397.7	336.6
1.83V	3277	2005.4	1449.3	985.4	794.3	642.0	536.2	467.7	387.3	330.7
1.85V	3060	1853.9	1327.8	947.8	767.2	624.1	521.3	454.3	375.0	318.7
1.88V	2844	1671.2	1215.4	899.6	725.1	598.8	506.4	443.9	364.9	309.8

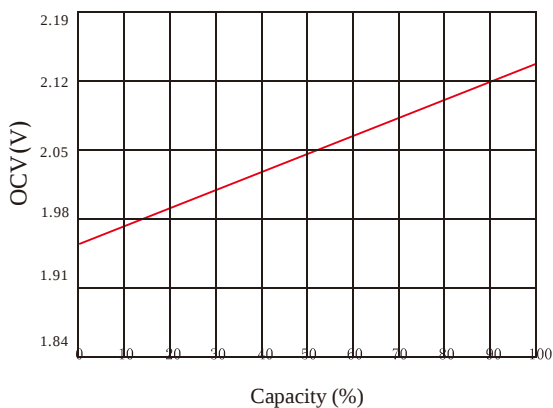
Discharge curve at different rate (25°C)



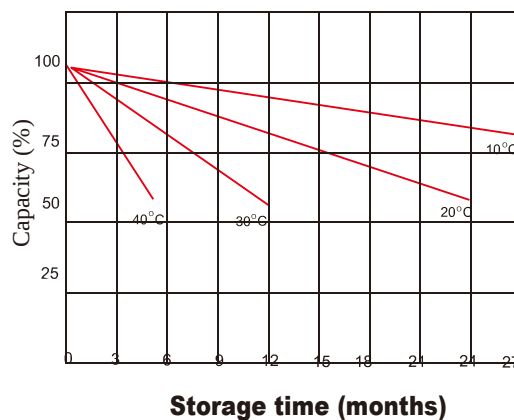
Charge curve (25°C)



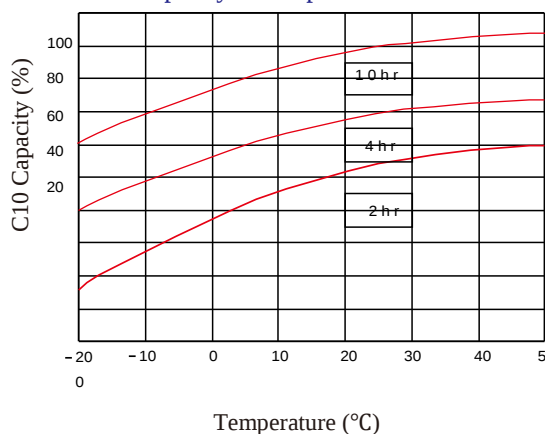
Capacity vs OCV curve



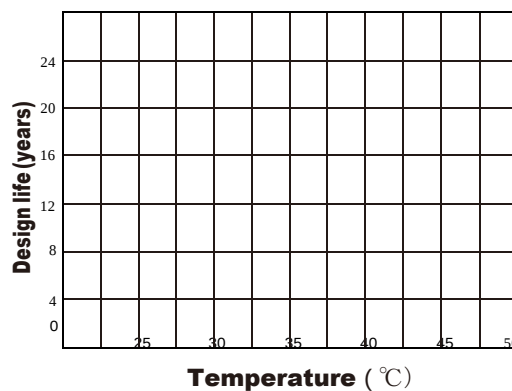
Residue capacity vs storage time



Capacity vs temperature curve



Design life vs temperature



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