

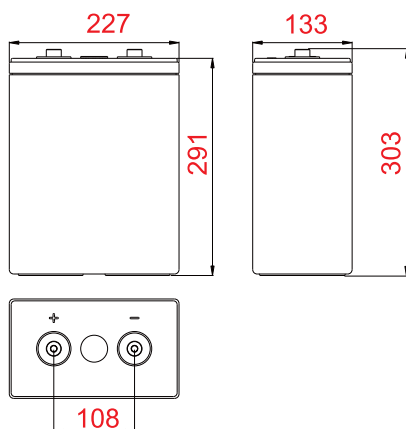
REXC series

REXC-300

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	300Ah (10hr to 1.80V/cell @25°C) 360Ah (120hr to 1.85V/cell @25°C)
Typical Weight	24kg
Internal Resistance	Approx 0.39mΩ
Short-Circuit Current	4752A
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	75A
Charge Voltage	Floating: 2.23V (25°C) Equalizing/Cycle: 2.30V(25°C)
Terminal	M8 embedded copper
Terminal Hardware Torque	12~15N·m

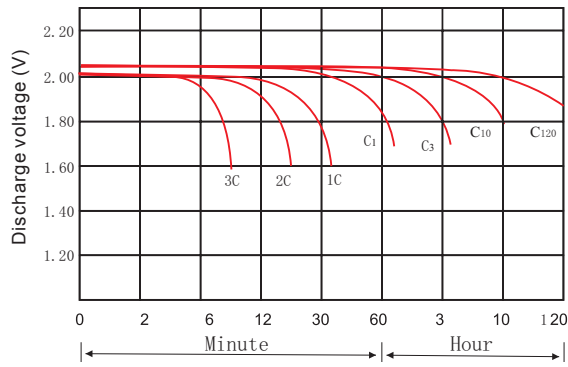
Constant Current Discharge Characteristics Units: Amperes (25°C)

End voltage per cell	1hr	3hr	5hr	8hr	10hr	24hr	48hr	72hr	120hr
1.75V	169.6	78.0	54.2	37.9	31.6	14.1	7.30	5.00	3.20
1.80V	158.9	75.6	52.9	37.2	30.9	13.9	7.10	4.90	3.10
1.83V	148.8	73.1	51.7	36.5	30.2	13.6	7.00	4.80	3.00
1.85V	143.4	71.7	51.1	36.1	30.1	13.4	6.90	4.70	3.00
1.88V	137.4	70.2	50.6	35.7	29.8	13.3	6.90	4.60	3.00

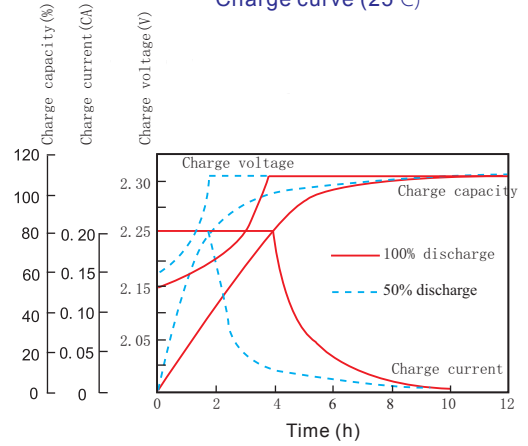
Discharge Data with Constant Power Units: Watts per cell (25°C)

End voltage per cell	15min	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.75V	740.1	546.4	342.6	224.6	160.4	131.6	111.8	96.2	73.6	61.8
1.80V	686.1	528.5	334.6	220.4	154.7	127.3	108.7	93.4	71.7	60.8
1.83V	653.4	500.7	322.7	211.5	150.9	125.5	106.4	90.6	70.3	59.7
1.85V	632.1	474.4	304.3	202.6	146.5	122.4	103.6	88.4	69.3	58.5
1.88V	556.7	443.9	286.0	188.3	141.5	118.2	100.2	85.3	67.4	57.1

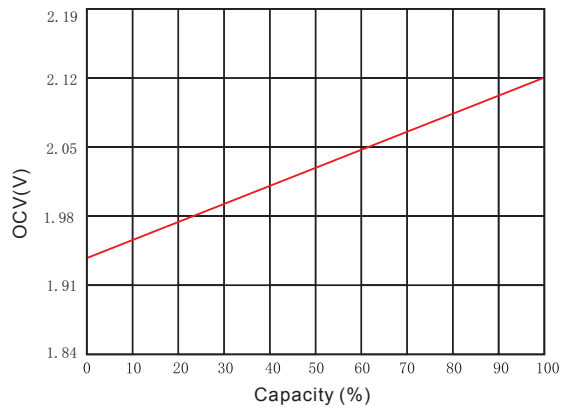
Discharge curve at different rate (25°C)



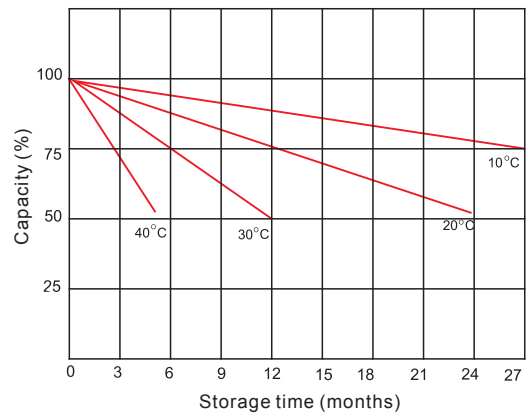
Charge curve (25°C)



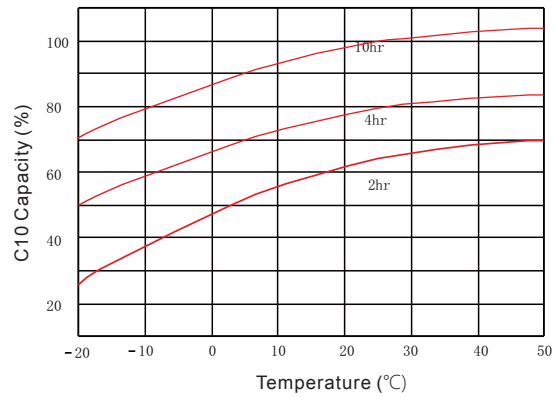
Capacity vs OCV curve



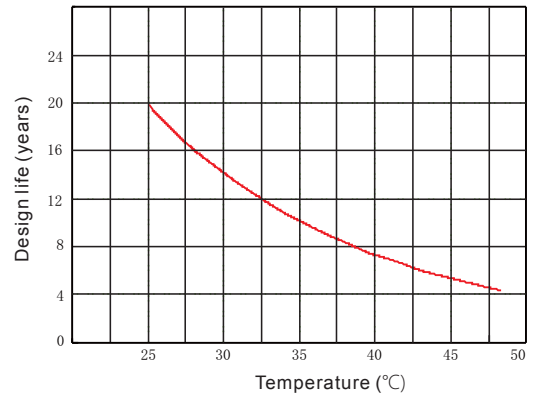
Residue capacity vs storage time



Capacity vs temperature curve



Design life vs temperature



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