



RL2-200 (2V200Ah)

RL2-200 is a general purpose 2V battery with 12-15 years design life time in float charging use. As with all Ritar batteries, all RL models are rechargeable, highly efficient, leak proof and maintenance free.

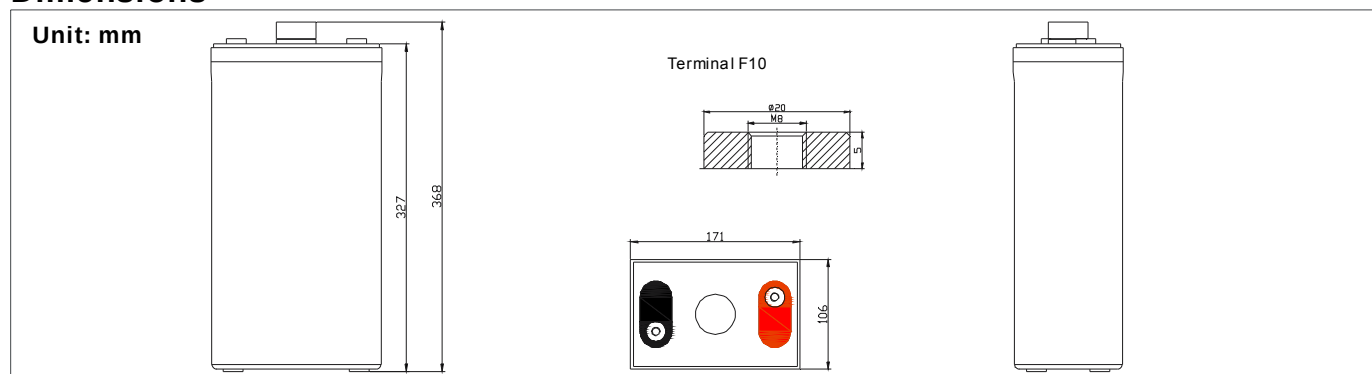


Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	200Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 15 Kg
Max. Discharge Current	1000 A (5 sec)
Internal Resistance	Approx. 0.8 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	2.25 to 2.30 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	40 A
Equalization and Cycle Service	2.40 to 2.45 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Thread insert & Bolt (F10)
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.



Dimensions



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

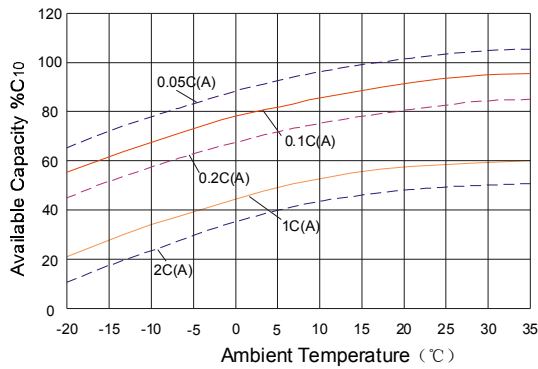
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	318	211	129	76.8	57.2	45.6	38.4	33.2	26.8	22.4
1.65V	302	202	124	74.0	54.8	44.0	36.8	32.4	25.6	21.6
1.70V	282	191	121	72.8	53.6	43.6	36.4	31.6	25.2	21.2
1.75V	250	170	112	68.8	50.8	41.2	34.8	30.0	24.4	20.8
1.80V	215	156	105	65.6	48.8	40.8	33.6	29.6	24.0	20.0
1.85V	182	141	97	62.0	46.4	37.6	32.0	28.0	22.8	19.2

Constant Power Discharge Characteristics Unit: W(25°C)

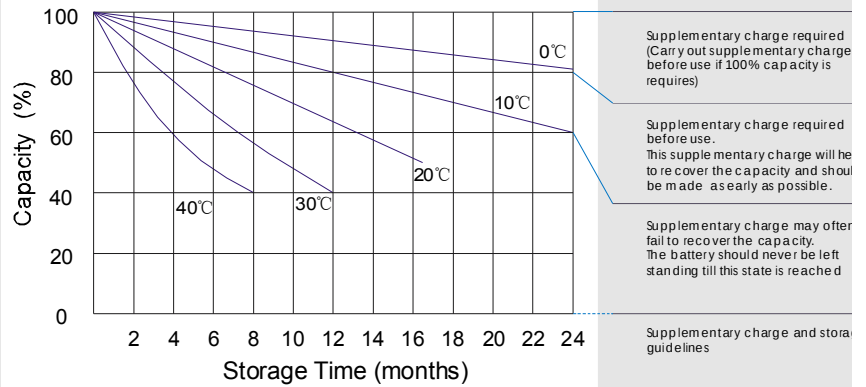
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	556	375	231	139	104	83.6	70.8	62.8	50.0	42.4
1.65V	551	373	230	137	104	82.8	70.0	62.0	49.6	42.0
1.70V	507	347	223	135	100	81.6	69.2	60.8	48.8	41.6
1.75V	456	312	208	129	97	78.8	66.4	58.0	47.6	40.4
1.80V	392	288	196	123	93	76.4	64.4	56.8	46.0	39.2
1.85V	332	260	181	116	88	70.4	61.6	53.6	44.0	38.0

All mentioned values are average values.

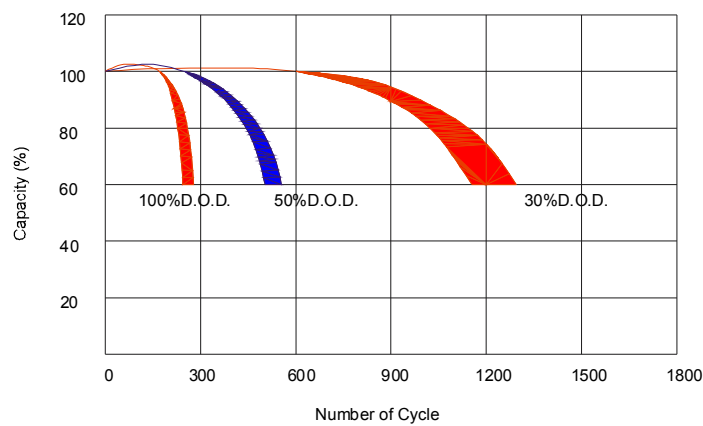
Temperature effects curve



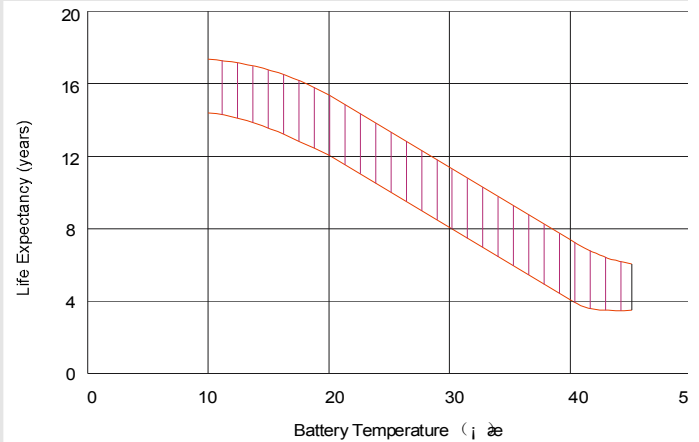
Storage characteristics



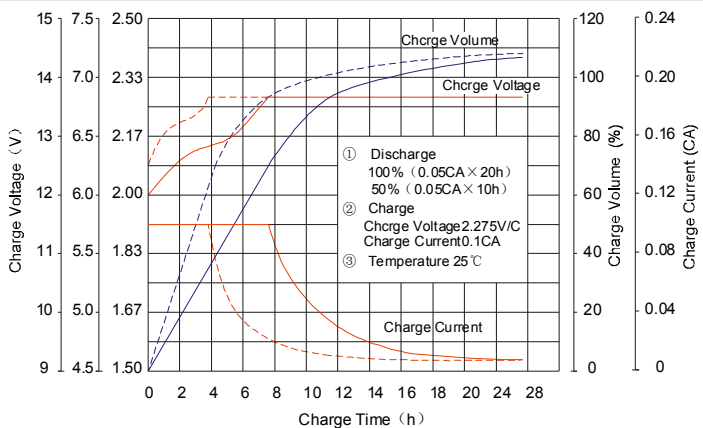
Life characteristics of cyclic use



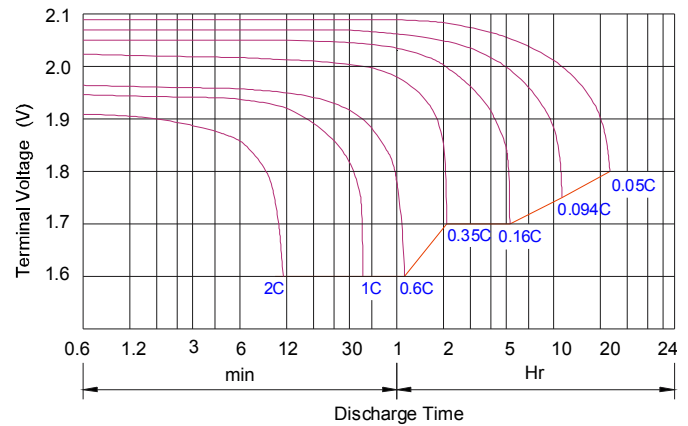
Effect of temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic Curve



Charging Procedures(12V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4~15.0	0.3C
Standby	25°C	13.7	13.6~13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h + 2.25~2.50V, 24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h + 0.1CAx12h

Charging Procedures(2V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	2.275	2.25~2.30	0.2C
Standby	25°C	2.425	2.4~2.45	0.2C

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