



RA12-200G (12V200Ah)

RA12-200G is GEL Standby battery with 12 years+ design life time in float charging use. Ritarr Gel battery are featured with low self-discharge, good consistence on deep discharge, long cyclic life, low floating charging voltage and current, free from erosion, pollution, gas escape, and leakage, as well as beneficial to environmental protection.



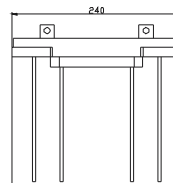
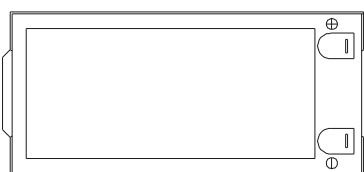
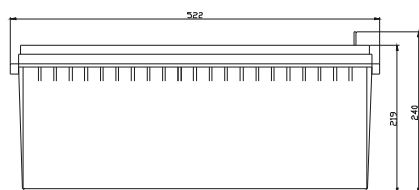
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 60.6 Kg
Max. Discharge Current	1000 A (5 sec)
Internal Resistance	Approx. 8 mΩ
Operating Temperature Range	Discharge: -30°C~60°C Charge: -20°C~50°C Storage: -30°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	60 A
Equalization and Cycle Service	14.1 to 14.3 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 12 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Faston F16/F12
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.

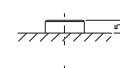


Dimensions

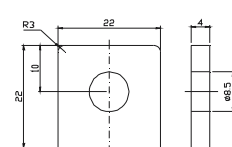
Unit: mm



Terminal F12



Terminal F16



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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	684	490	357	210	121.6	74.6	48.8	40.4	31.8	23.9	20.2	10.7
1.67V	666	467	350	207	121.0	74.1	48.6	40.2	31.6	23.7	20.0	10.5
1.70V	628	450	344	205	119.9	73.5	48.2	40.0	31.4	23.5	19.8	10.3
1.75V	564	415	328	200	118.7	72.9	48.1	39.6	31.0	23.3	19.6	10.1
1.80V	509	379	302	191	115.9	71.6	46.8	38.7	30.5	22.9	19.4	9.9
1.85V	443	339	271	179	110.1	68.4	44.7	36.8	29.2	21.9	18.8	9.3

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1227	897	661	396	232	143	93.9	77.8	61.3	46.2	37.8	20.0
1.67V	1202	857	647	391	231	142	93.7	77.6	61.0	46.0	37.4	19.8
1.70V	1135	828	638	386	229	141	93.1	77.2	60.8	45.6	37.2	19.6
1.75V	1022	765	608	378	227	140	92.6	76.7	60.2	45.2	36.9	19.4
1.80V	919	695	559	360	221	138	90.3	74.6	59.3	44.2	36.5	19.2
1.85V	793	617	499	338	209	131	85.8	71.1	56.3	42.7	35.3	18.4

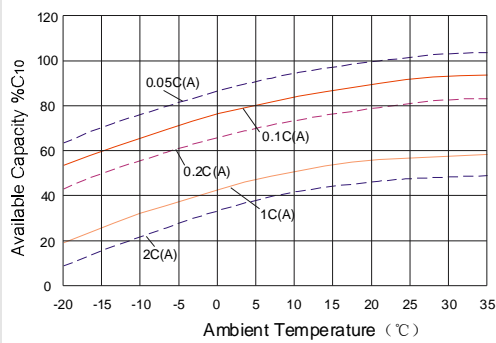
All mentioned values are average values.

RA12-200G

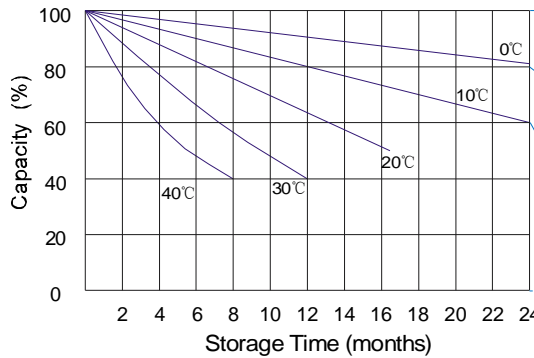
12V200Ah



Temperature effects curve



Storage characteristic



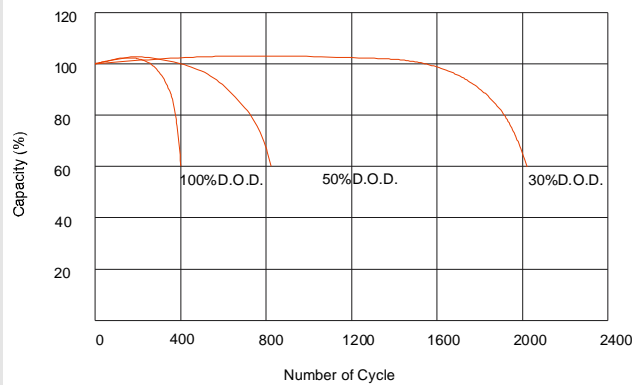
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

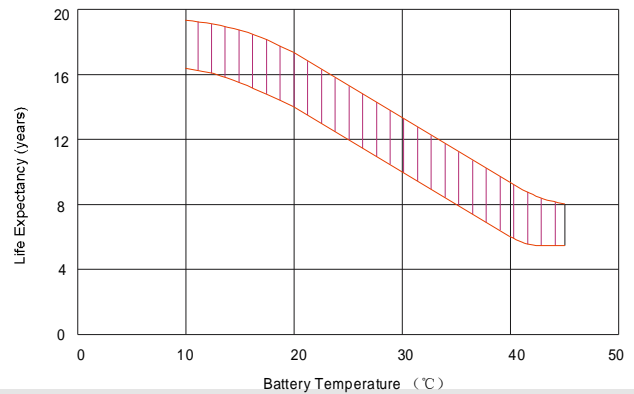
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

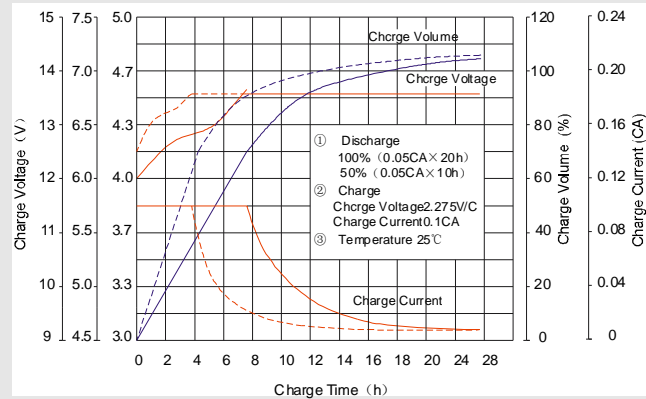
Life characteristics of cyclic use



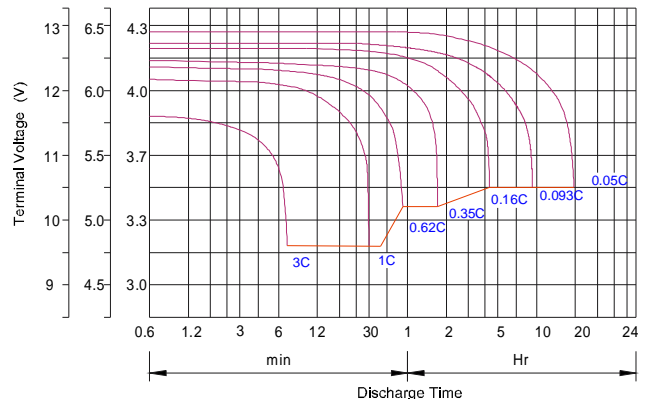
Effect of temperature on long term float life



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	14.2	14.1~14.3	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 +14.1~14.3V,24h,Max. Current 0.2CA
Constant Current	-0.2Cx2h +0.1CAx12h

Charging Procedures(6V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	7.10	7.05~7.15	0.3C
Standby	25°C	6.85	6.8~6.9	0.3C

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