



RA12-75G (12V75Ah)

RA12-75G is GEL Standby battery with 12 years+ design life time in float charging use. Ritar 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.

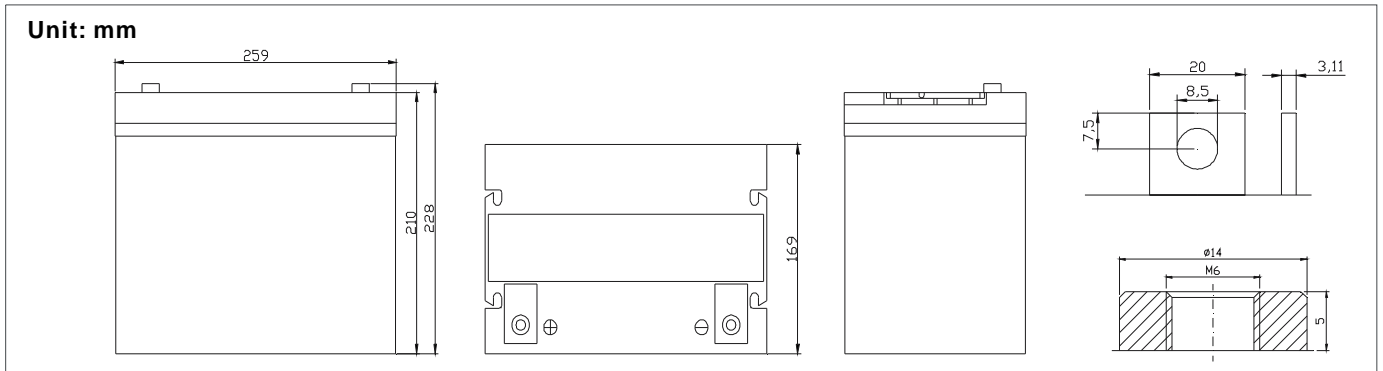


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	75Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 23.9 Kg
Max. Discharge Current	375 A (5 sec)
Internal Resistance	Approx. 12 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	22.5 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	Terminal F11/F15
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	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	257	184	134	79	45.6	28.0	18.3	15.1	11.9	8.9	7.6	4.0
1.67V	250	175	131	78	45.4	27.8	18.2	15.1	11.9	8.9	7.5	3.9
1.70V	235	169	129	77	45.0	27.6	18.1	15.0	11.8	8.8	7.4	3.9
1.75V	211	156	123	75	44.5	27.3	18.0	14.9	11.6	8.7	7.3	3.8
1.80V	191	142	113	72	43.5	26.9	17.5	14.5	11.4	8.6	7.3	3.7
1.85V	166	127	102	67	41.3	25.7	16.8	13.8	10.9	8.2	7.1	3.5

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	460	336	248	148	86.9	53.6	35.2	29.2	23.0	17.3	14.2	7.5
1.67V	451	321	243	147	86.5	53.4	35.1	29.1	22.9	17.2	14.0	7.4
1.70V	425	311	239	145	85.8	52.9	34.9	29.0	22.8	17.1	14.0	7.3
1.75V	383	287	228	142	85.0	52.5	34.7	28.8	22.6	17.0	13.8	7.3
1.80V	345	261	210	135	82.9	51.7	33.9	28.0	22.2	16.6	13.7	7.2
1.85V	297	231	187	127	78.5	49.3	32.2	26.6	21.1	16.0	13.2	6.9

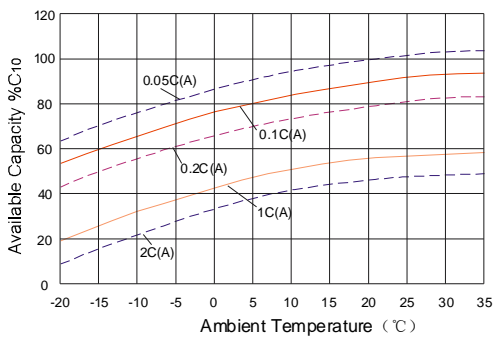
All mentioned values are average values.

RA12-75G

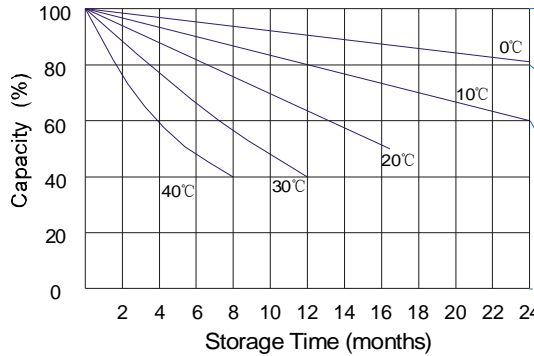
12V75Ah



Temperature effects curve



Storage characteristic



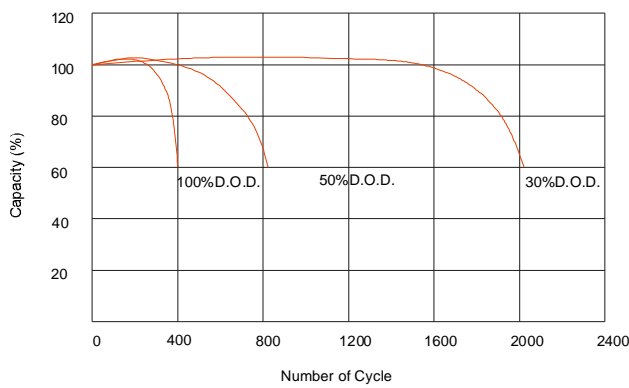
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

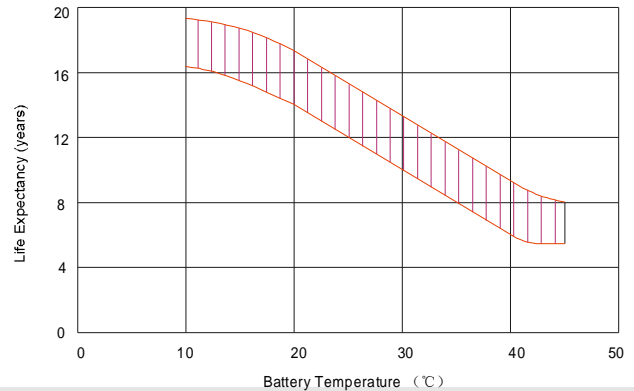
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

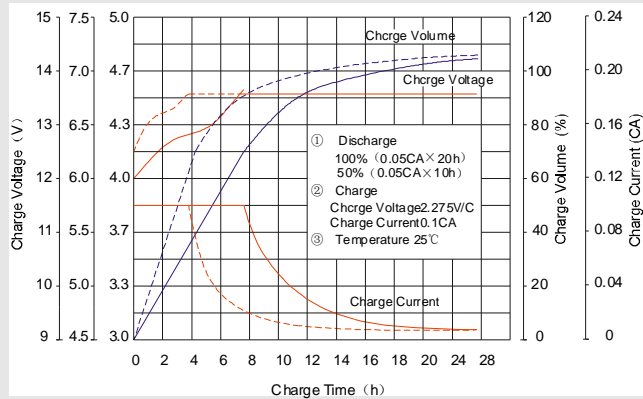
Life characteristics of cyclic use



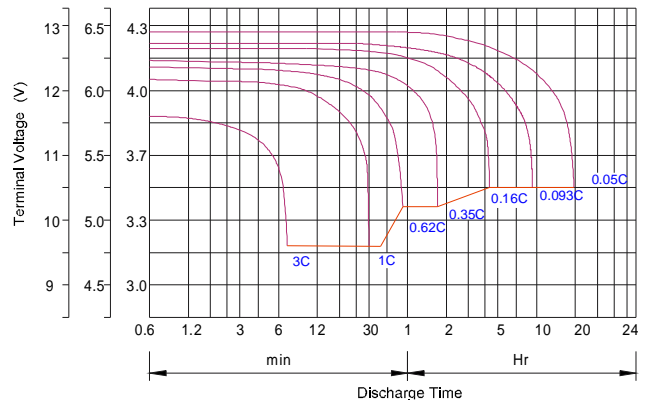
Effect of temperature on long term float life



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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