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RG1218-70HR

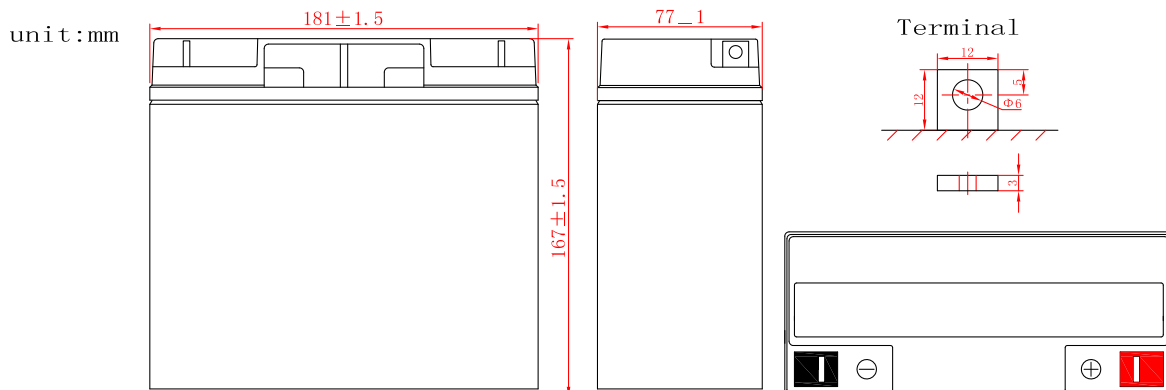
The battery is rechargeable, highly efficient, leak proof and maintenance free.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	70W @ 15min-rate to 1.67V per cell @ 25°C (77°F)
Weight	Approx.5.6(±5%)kg
Maximum Discharge Current	270A (5sec)
Internal Resistance	Approx12mΩ
Operating Temperature Range	Discharge: -15°C~50°C(5°F~122°F) Charge: -15°C~40°C(5°F~104°F) Storage:-15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 V DC/unit Average at 25°C (77°F)
Recommended Maximum Charging Equalization and Cycle Service	5.4A 14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	Batteries can be stored for over 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Recessed type (M6 bolt)
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



Dimensions :	Length (L)	Width (W)	Container Height (H)	Overall Height (H)
Unit: mm	181±1.5	77±1.5	167±1.5	167±1.5



Constant Current Discharge Characteristics

Unit: A(25°C,77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	74.99	61.20	54.13	40.74	32.03	22.81	12.79	9.07
1.67V	68.05	55.97	49.89	38.11	30.23	21.62	12.20	8.68
1.70V	65.11	53.75	48.08	36.93	29.42	21.08	11.93	8.52
1.75V	60.31	50.07	45.05	34.88	27.96	20.20	11.53	8.26
1.80V	55.24	46.28	42.03	33.12	26.63	19.33	11.10	7.97
1.85V	47.24	39.44	35.68	28.40	23.14	17.09	10.03	7.29

Constant Power Discharge Characteristics

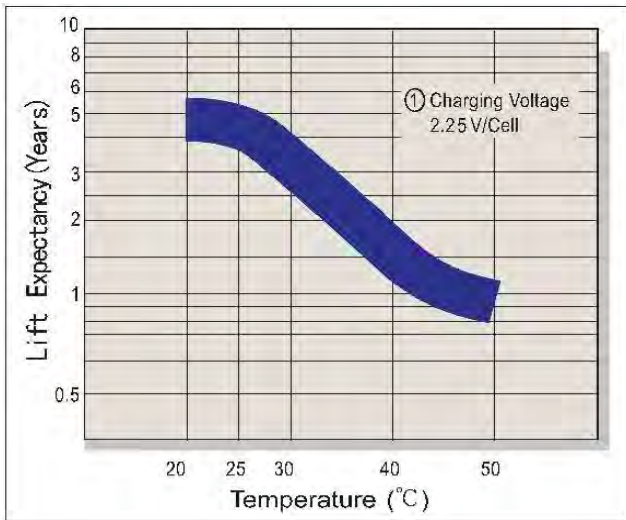
Unit: W(25°C,77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	134.77	110.35	97.97	74.45	58.96	42.17	23.99	17.18
1.67V	123.82	102.31	91.63	70.35	56.27	40.60	23.09	16.59
1.70V	119.60	89.98	88.90	68.88	55.07	39.66	22.72	16.33
1.75V	111.86	93.28	84.36	65.66	52.97	38.40	22.09	15.91
1.80V	103.82	87.27	79.53	62.73	50.88	37.13	21.46	15.49
1.85V	90.20	75.41	68.34	54.52	44.59	33.04	19.53	14.22

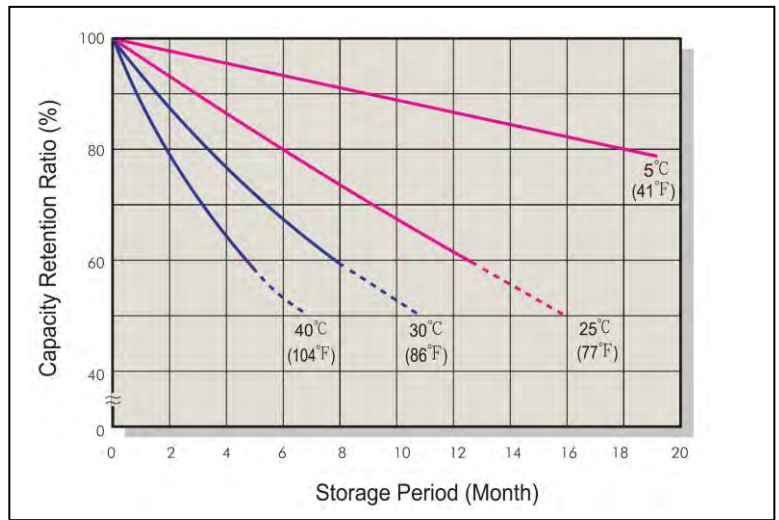
Ratings presented herein are subject to revision without notice.

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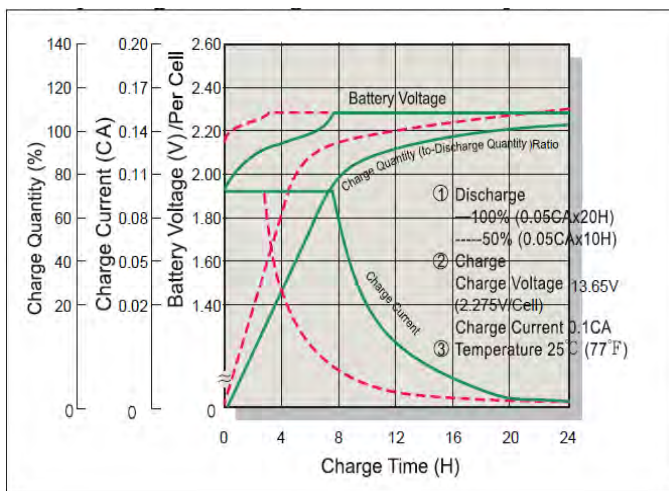
Trickle (or Float) Service Life



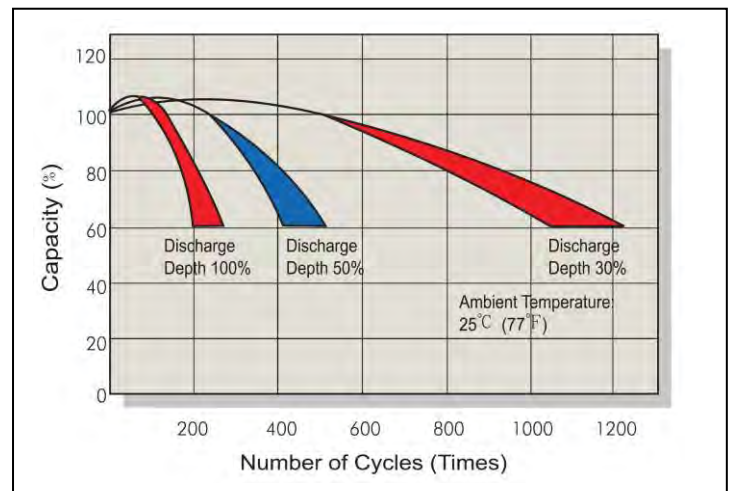
Capacity Retention Characteristic



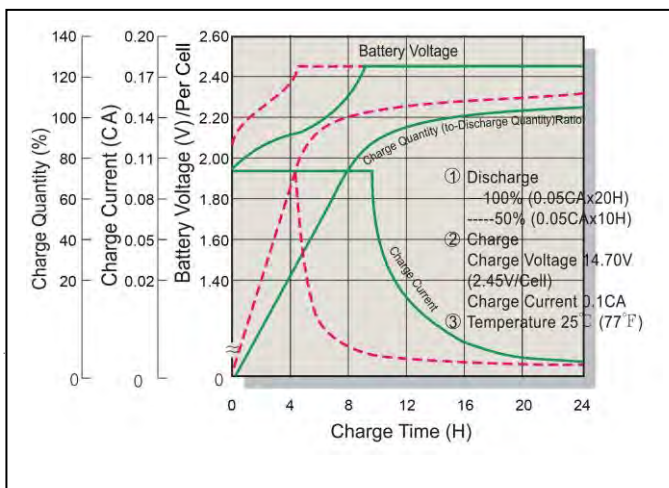
Battery Voltage and Charge Time for Standby Use



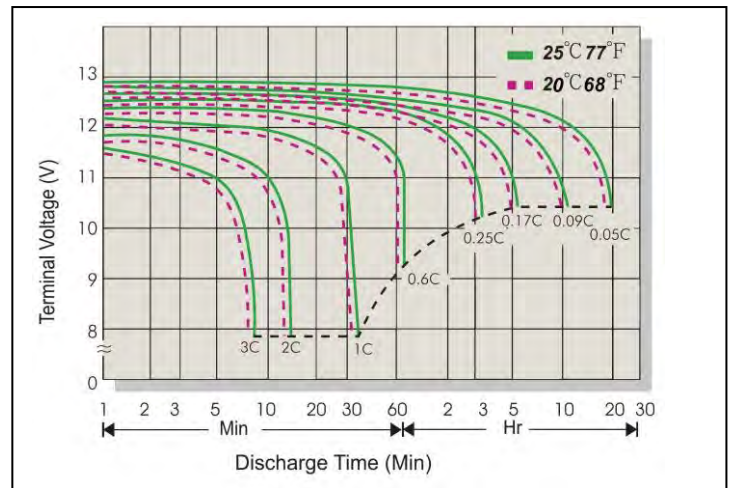
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.450	2.40~2.50	0.3C
Standby	25°C	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	<0.2C	0.2C~0.5C	0.5C~1.0C	>1.0C

Effect of temperature on capacity

Temperature	Dependency of capacity(20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%