

RF12-250

(12V250Ah)

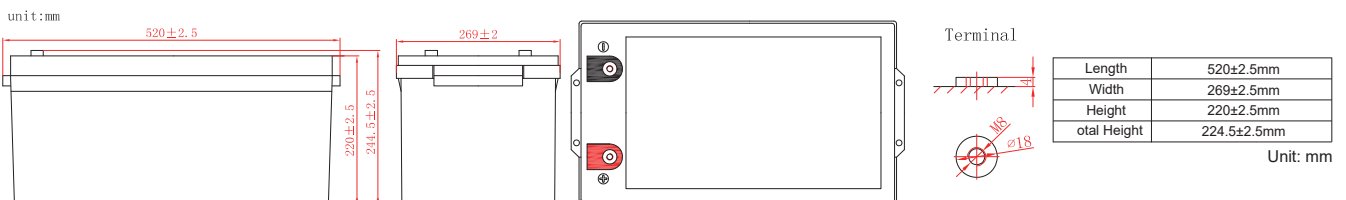


- Non-Spillable Sealed Construction
- Absorptive Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) container and cover
- Gas Recombination
- Maintenance-Free Operation
- Low Pressure Venting System
- Low Self-Discharge - Long Shelf Life
- Wide Operating Temperature Range
- High Recovery Capability

SPECIFICATION

Cells Per Unit	6
Voltage Per Unit	12
Capacity	250Ah @ 10hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx.68.2 kg(149.91 lbs)
Maximum Discharge Current	2000A(5sec)
Internal Resistance	Approx. 2.5 mΩ
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 VDC/unit Average at 25°C(77°F)
Recommended Maximum Charging	50A
Current Limit	
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self Discharge	Baace Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M8 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of(UL 94-V0) can be available upon request.

DIMENSIONS



Constant Current Discharge Characteristics : A (25°C,77°F)

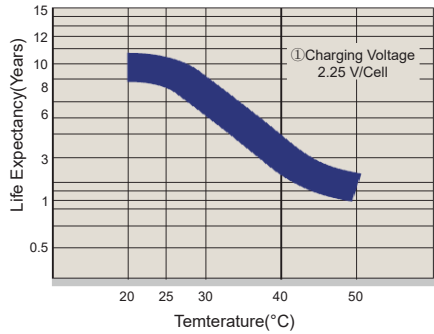
F.V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	521	392	253.0	156.9	68.5	44.74	25.44	13.64
1.65V	505	382	248.6	155.3	68.2	44.53	25.37	13.62
1.70V	486	369	242.7	152.5	67.5	44.20	25.26	13.56
1.75V	459	351	234.8	148.3	66.2	43.54	25.00	13.44
1.80V	420	325	224.1	141.7	63.6	42.24	24.54	13.21
1.85V	361	282	209.9	131.2	58.5	39.34	23.80	12.79

Constant Power Discharge Characteristics : WPC (25°C,77°F)

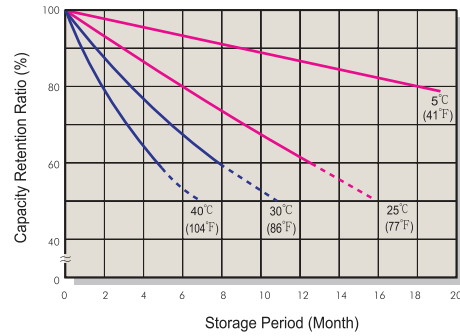
F.V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1080	870	489.0	298.3	135.2	87.3	50.06	27.06
1.65V	1024	825	481.0	295.1	134.2	87.2	49.83	27.02
1.70V	957	771	470.9	291.0	132.8	86.8	49.53	26.92
1.75V	872	705	456.8	285.2	130.3	85.7	49.07	26.71
1.80V	767	624	436.6	276.4	125.3	83.2	48.28	26.27
1.85V	637	524	408.6	260.7	116.5	78.3	47.07	25.44

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

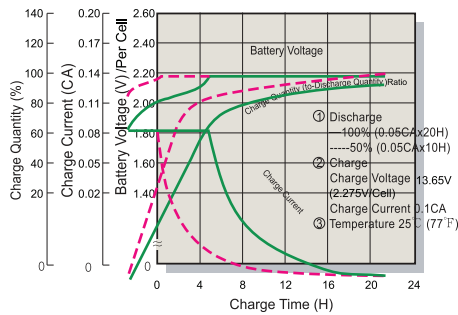
Trickle(or Float)Design Life



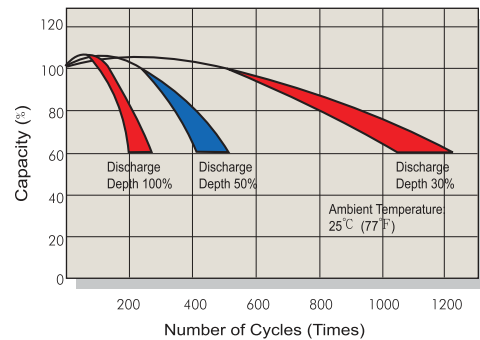
Capacity Retention Characteristic



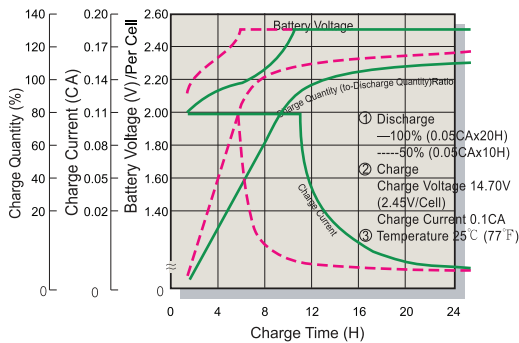
Battery Voltage and Charge Time for Standby Use



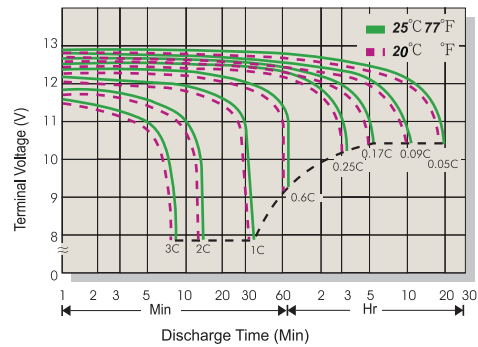
Cycle Service Life



Temperature Effects On Capacity



Storage Characteristics



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40-2.50	0.2C
Standby	25°C(77°F)	2.275	2.25-2.30	

Self-discharge Characteristics

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

Effect of temperature on capacity (10HR)

Temperature	40°C	25°C	0°C	-15°C
Dependency of Capacity (10HR)	102%	100%	85%	65%

Self-discharge Characteristics

Charge Voltage(V/Cell)	3 Months	6 Months	9 Months
Charge Voltage(V/Cell)	91%	82%	64%

(Note) All above information shall be changed without prior notice, Restar reserves the right to explain and update the latest information.

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