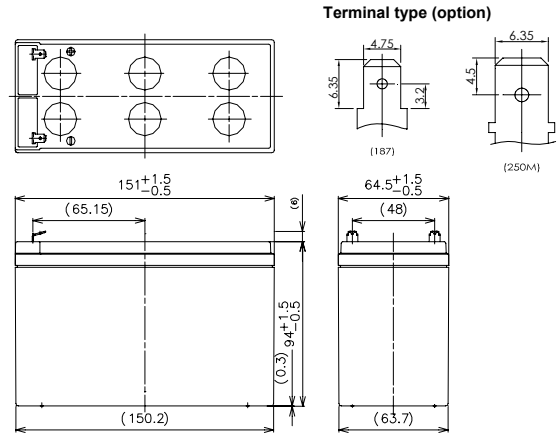


For standby power supplies  
 Expected trickle life: 3 years at 25°C  
 5 years at 20°C



※Contents indicated (including the recycle marking, etc) are subject to change without notice.

### ■Dimensions(mm)



Battery case resin: Flame-retardant (UL94V-0)

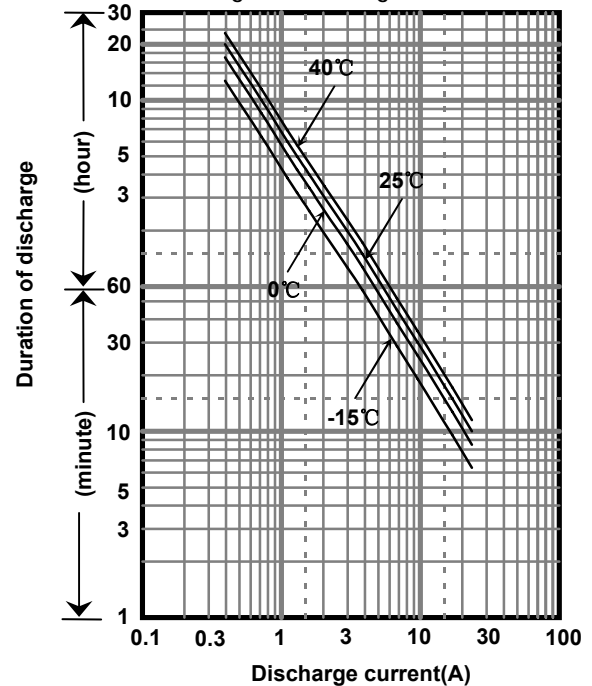
### ■Specification

Nominal Voltage		12V
Rated Capacity(cell@10MR)		45W
Dimensions	Length	151 mm
	Width	64.5 mm
	Height	94 mm
	Total height	100 mm
Approx. Mass		2.55 kg
Terminal		Faston 187 & 250M

### ■Characteristics

Capacity (25 °C)	30 minute rate	112W
	15 minute rate	195W
	10 minute rate	270W
	5 minute rate	410W
Internal Resistance (25 °C)	Fully charged battery	20 mΩ
Temperature Dependency of Capacity (20 hour rate)	40 °C	102%
	25 °C	100%
	0 °C	85%
	-15 °C	65%
Self Discharge (25 °C)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

### ■Duration of discharge vs. discharge current



### ■Watt Table(25°C)

Cut-off V	(Wattage/Battery)															
	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	530	410	270	195	159	112	82.1	65.7	45.2	34.9	26.0	20.0	16.5	13.3	8.79	4.76
9.9V	509	400	263	194	158	111	81.6	65.1	44.3	34.7	25.9	19.8	16.4	13.2	8.75	4.75
10.2V	490	390	258	193	156	110	80.8	64.4	43.4	33.9	25.6	19.7	16.2	13.1	8.65	4.73
10.5V	463	360	246	187	151	109	78.7	63.0	41.7	32.8	25.2	19.5	16.1	13.0	8.62	4.72
10.8V	434	330	234	180	146	108	78.3	61.8	41.3	31.1	24.7	19.3	15.7	12.7	8.52	4.69

### ■Ampere Table(25°C)

Cut-off V	(Ampere/Battery)															
	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	47.7	36.8	23.9	17.0	13.7	9.57	6.99	5.57	3.82	2.95	2.19	1.67	1.38	1.11	0.732	0.397
9.9V	45.8	35.9	23.5	16.9	13.6	9.55	6.95	5.50	3.75	2.93	2.17	1.66	1.37	1.10	0.729	0.396
10.2V	44.1	35.0	23.0	16.8	13.5	9.49	6.88	5.46	3.67	2.86	2.15	1.65	1.36	1.09	0.721	0.394
10.5V	41.6	32.3	22.0	16.3	13.0	9.40	6.70	5.35	3.53	2.77	2.11	1.64	1.35	1.08	0.718	0.393
10.8V	39.0	29.6	20.9	15.7	12.6	9.32	6.67	5.25	3.50	2.62	2.08	1.62	1.31	1.06	0.710	0.391

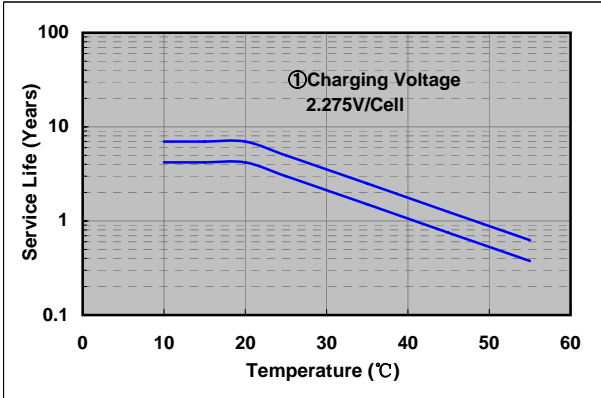
**Charging Method (25°C)**

Trickle use	Control voltage:13.6-13.8V Initial current:1.20A or smaller
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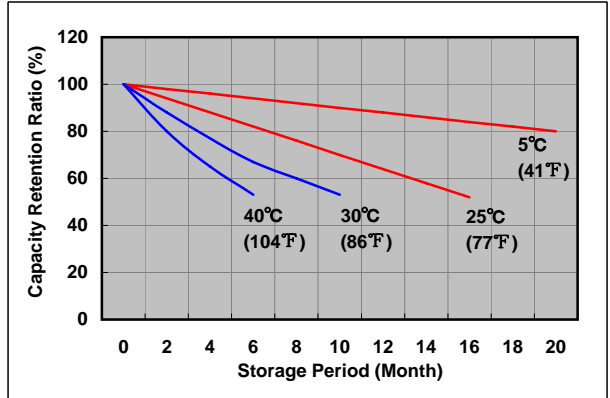
**Cut off voltage**

Discharge current	0.400A-1.60A	1.60A-4.00A	4.00A-8.00A	8.00A-16.0A	16.0A-24.0A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

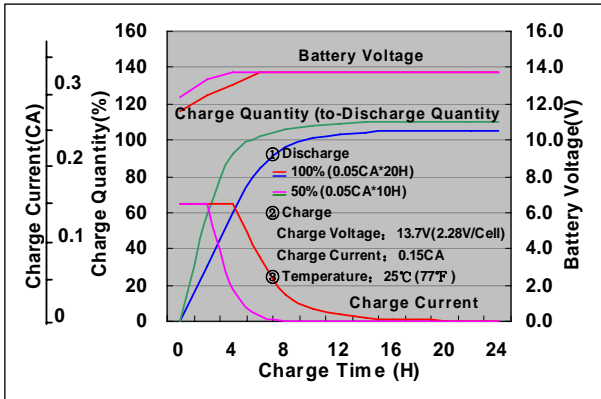
**Influence of Temperature on Trickle life**



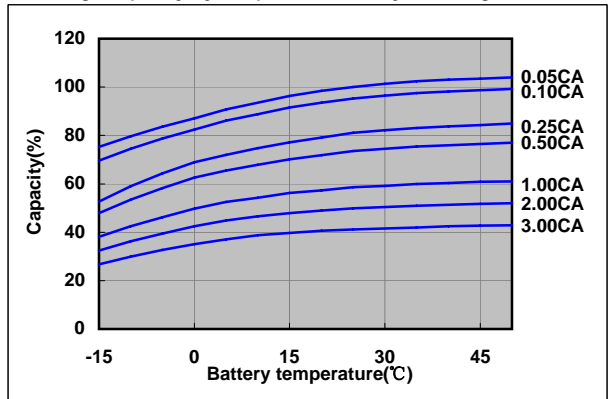
**Residual capacity test result**



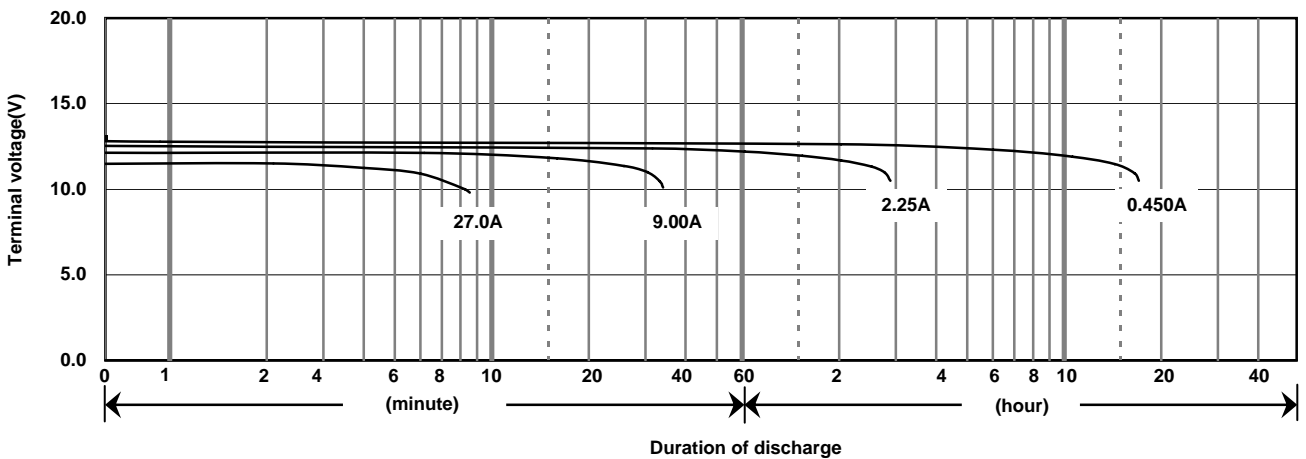
**Constant-voltage constant-current charge characteristics for Trickle use**



**Discharge capacity by temperature and by discharge current**



**Discharge characteristics(25°C)**



**Caution**

Due to the potential energy stored in the batteries, Please read 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 before using batteries. If improper handling or use of the batteries without understanding 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 may result in bodily injury caused by electrolyte leakage, heat generation, or explosion.

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