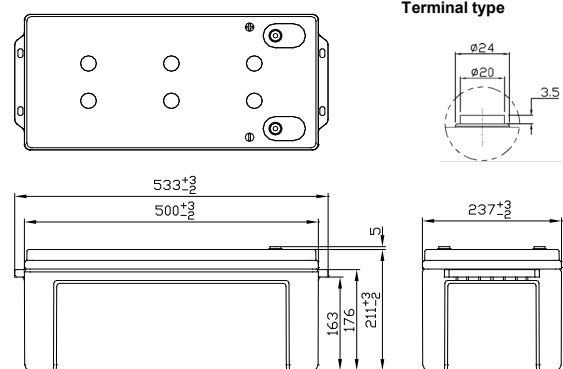


For standby power supplies
Expected trickle life: 6 years at 25℃
10 years at 20℃



■Dimensions(mm)



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

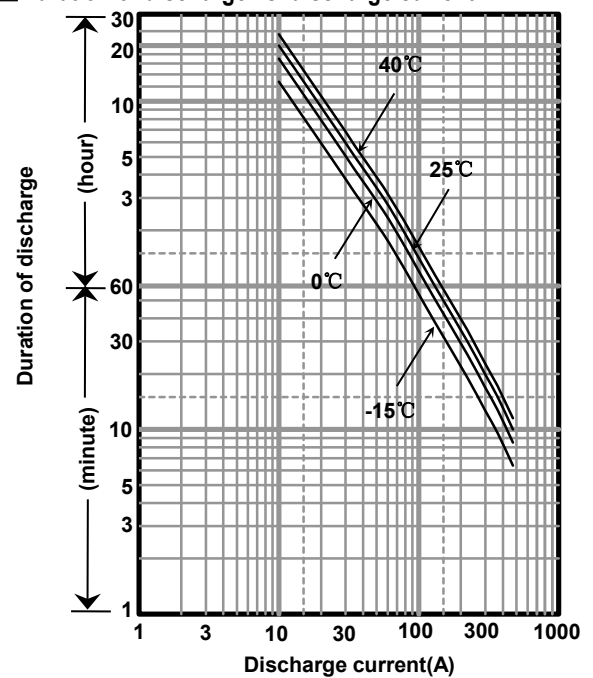
■Specifications

Nominal Voltage		12V
Rated Capacity(20HR)		200Ah
Dimensions	Length	533 mm
	Width	237 mm
	Height	211 mm
	Total height	216 mm
Approx. Mass		58.5 kg
Terminal		M8 threaded insert

■Characteristics

Capacity (25℃)	20 hour rate	200Ah
	10 hour rate	185Ah
	3 hour rate	169Ah
	1 hour rate	118Ah
Internal Resistance (25℃)	Fully charged battery	2.5 mΩ
Temperature Dependency of Capacity (20 hour rate)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self Discharge (25℃)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

■Duration of discharge vs. discharge current



■Watt Table(25℃)

Wattage values in the table are average instead of guaranteed value,
please consider appropriate redundancy by application.

(Wattage/Battery)

Cut-off V	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	6671	5355	4440	3565	2862	1875	1522	1125	928	685	529	445	385	239	129
9.9V	6522	5105	4420	3526	2792	1833	1501	1112	900	673	522	435	378	238	129
10.2V	6215	4722	4022	3468	2785	1782	1493	1105	892	667	518	432	352	232	129
10.5V	6010	4500	3915	3326	2750	1755	1405	1086	869	652	498	425	345	231	128
10.8V	5355	4410	3898	3233	2452	1693	1352	948	852	647	492	402	341	229	128

■Ampere Table(25℃)

Ampere values in the table are average instead of guaranteed value, please
consider appropriate redundancy by application.

(Ampere/Battery)

Cut-off V	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	660	438	369	302	228	168	135	97.8	78.4	62.3	47.2	39.2	32.4	19.2	10.1
9.9V	647	425	359	298	225	163	130	97.0	77.9	59.6	46.5	38.5	30.2	19.1	10.1
10.2V	569	410	347	285	215	158	128	95.2	77.3	58.7	45.9	37.5	29.5	19.0	10.0
10.5V	515	395	338	278	209	155	118	88.7	76.5	56.5	43.9	36.7	29.2	18.8	10.0
10.8V	450	362	327	275	205	150	115	82.3	74.7	55.8	43.0	35.2	28.9	18.5	10.0

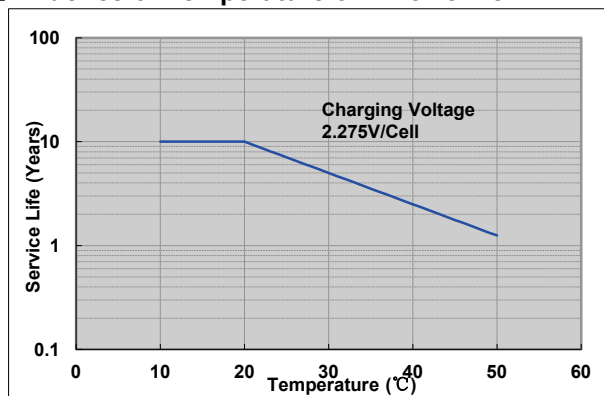
■ Charging Method (25°C)

Trickle use	Control voltage:13.6-13.8V Initial current:30.0A or smaller
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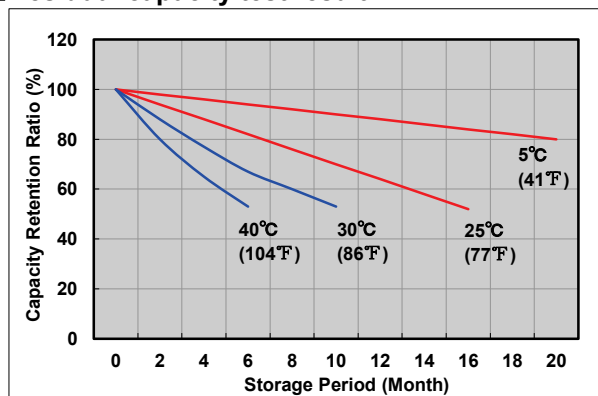
■ Cut off voltage

Discharge current	10.0A-40.0A	40.0A-100A	100A-200A	200A-400A	400A-600A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

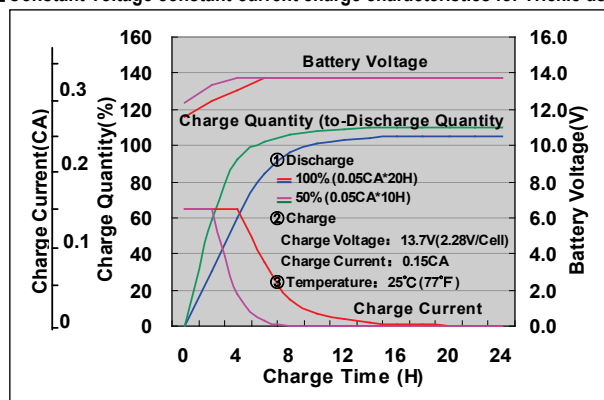
■ Influence of Temperature on Trickle life



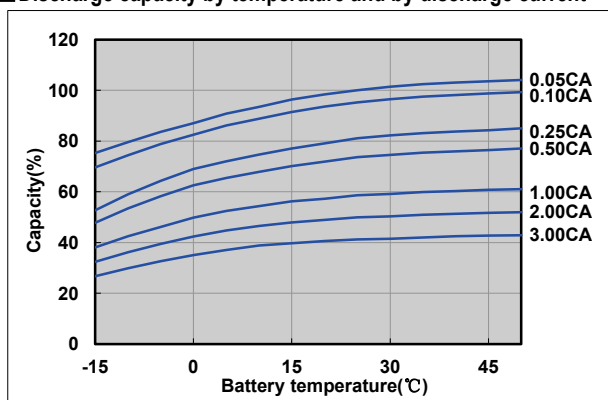
■ Residual capacity test result



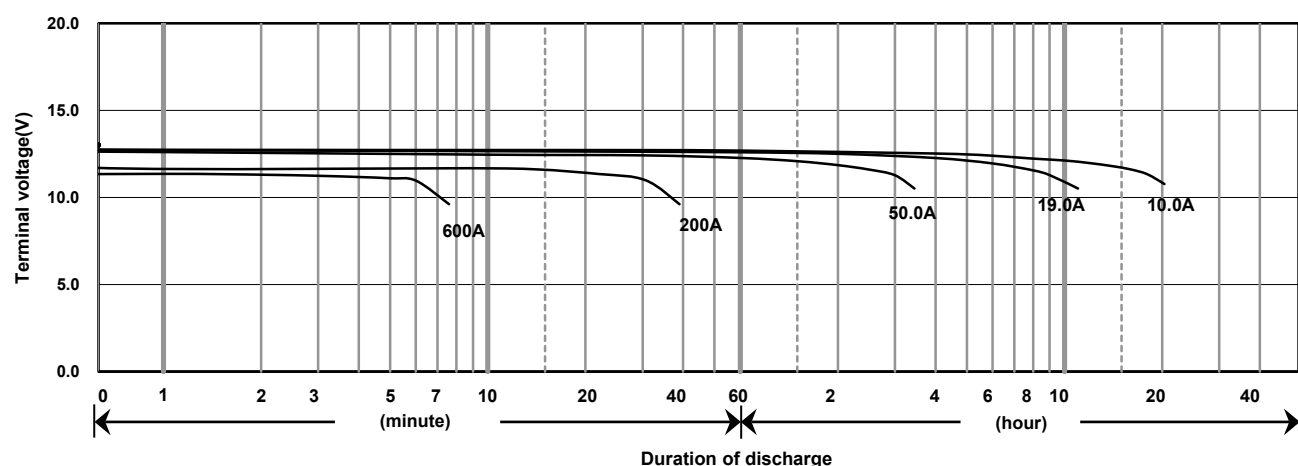
■ Constant-voltage constant-current charge characteristics for Trickle use



■ 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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