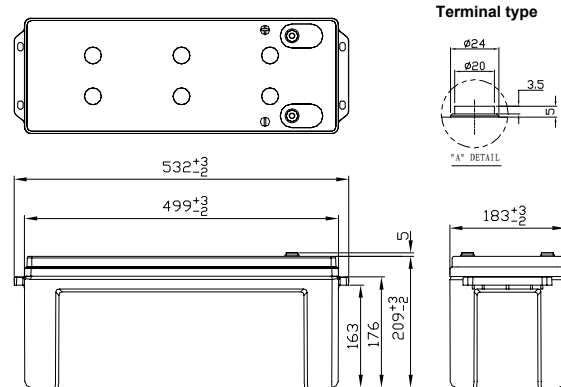


For standby power supplies
 Expected trickle life: 6 years at 25°C
 10 years at 20°C



■ Dimensions(mm)



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

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

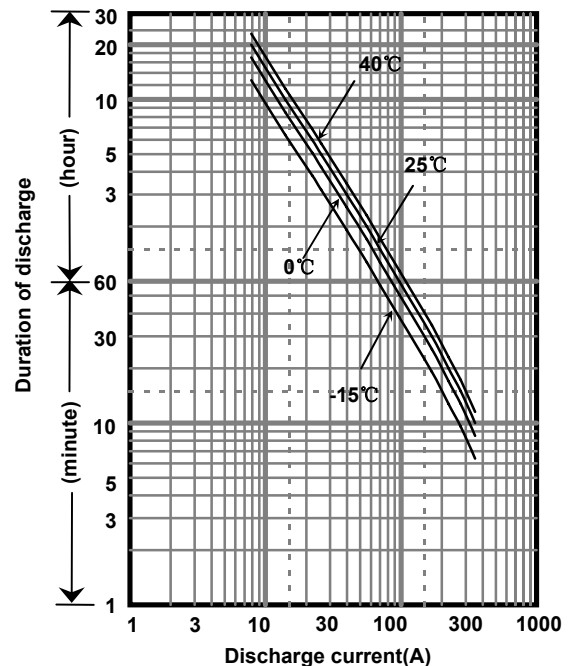
■ Specifications

Nominal Voltage	12V	
Rated Capacity(20HR)	150Ah	
Dimensions	Length	532 mm
	Width	183 mm
	Height	209 mm
	Total height	214 mm
Approx. Mass	43.0 kg	
Terminal	M8 threaded post	

■ Characteristics

Capacity (25 °C)	20 hour rate	150Ah
	10 hour rate	135Ah
	3 hour rate	119Ah
	1 hour rate	88Ah
Internal Resistance (25 °C)	Fully charged battery	3.5 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)

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	5040	3780	3000	2390	1774	1310	1046	791	608	444	348	284	242	164	91.2
9.9V	4925	3689	2923	2334	1727	1276	1013	763	596	437	342	281	240	163	91.2
10.2V	4340	3405	2833	2261	1672	1238	976	724	592	433	339	278	237	163	91.1
10.5V	4020	3216	2751	2197	1641	1208	947	695	585	428	334	274	235	161	90.3
10.8V	3850	2839	2661	2149	1601	1163	910	659	576	420	328	268	232	160	90.3

■ Ampere Table(25°C)

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	490	350	266	217	164	120	97.2	70.0	59.0	42.1	32.9	27.3	23.0	14.0	7.58
9.9V	479	342	259	212	159	117	94.1	67.5	58.0	41.3	32.3	26.7	22.6	13.9	7.58
10.2V	422	315	251	206	154	114	90.7	64.1	56.9	40.4	31.5	26.0	22.2	13.8	7.50
10.5V	381	298	244	200	151	111	88.0	61.5	55.8	39.8	31.0	25.7	22.0	13.7	7.50
10.8V	334	263	236	195	148	107	84.6	58.3	54.4	38.8	30.3	25.2	21.6	13.5	7.49

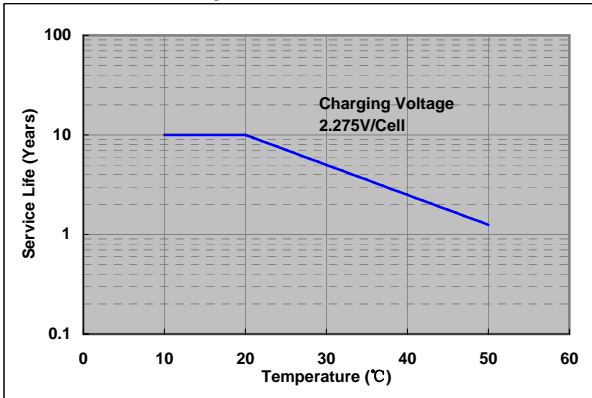
Charging Method (25°C)

Trickle use	Control voltage:13.6-13.8V Initial current:22.5A or smaller
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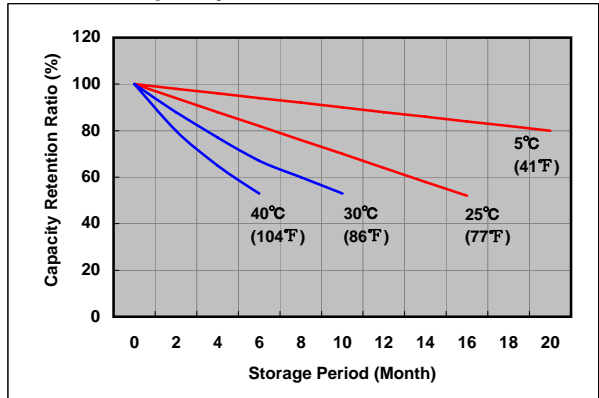
Cut off voltage

Discharge current	7.50A-30.0A	30.0A-75.0A	75.0A-150A	150A-300A	300A-450A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

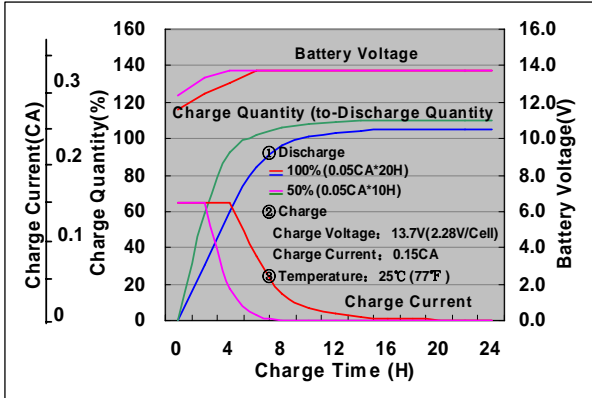
Influence of Temperature on Trickle life



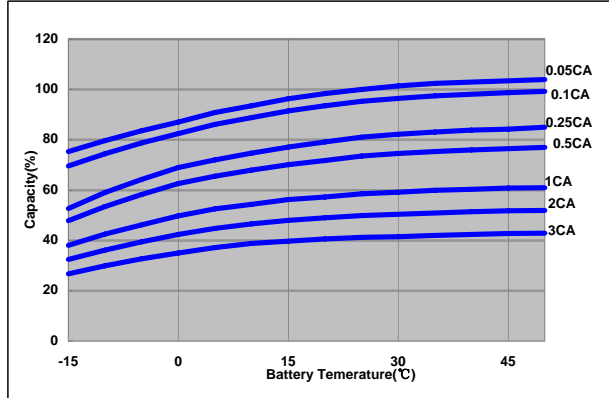
Residual capacity test result



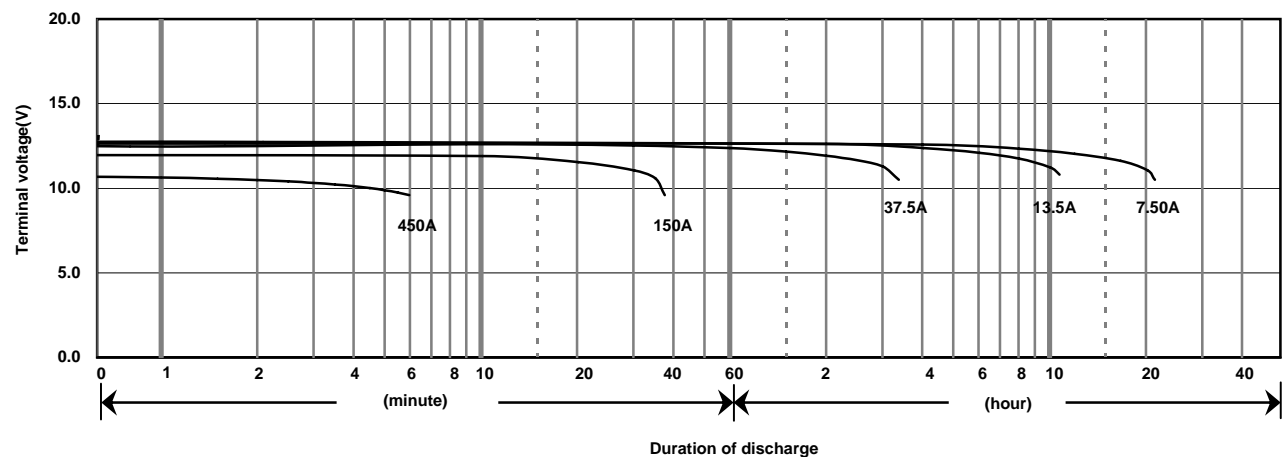
Constant-voltage constant-current charge characteristics for Trickle use



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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