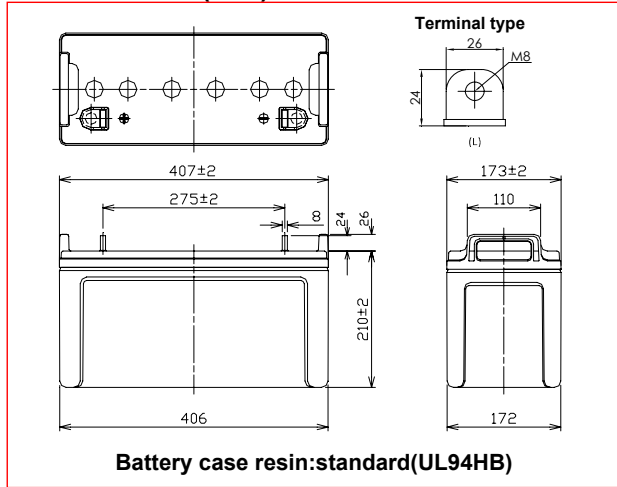


LC-XA12100

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



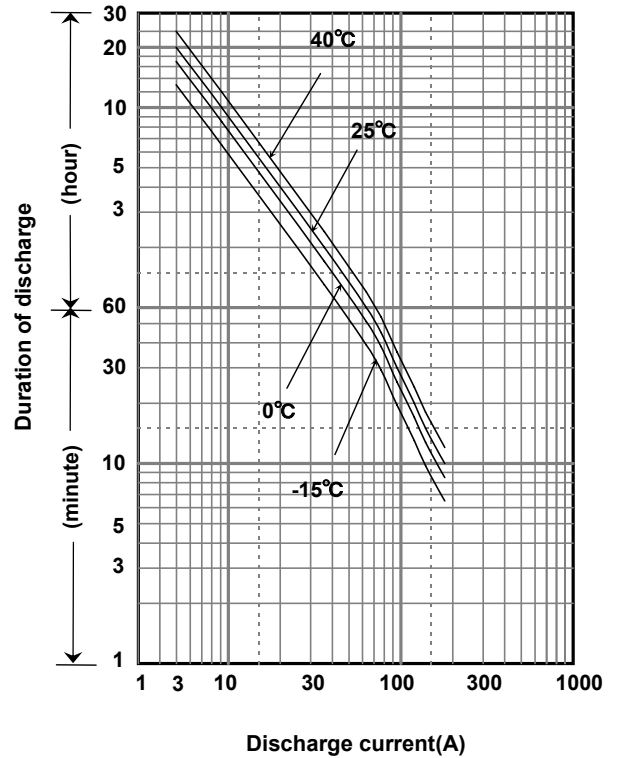
■ Dimensions(mm)



■ Specification

Nominal Voltage	12V	
Rated Capacity(20HR)	100Ah	
Dimensions	Length	407 mm
	Width	173 mm
	Height	210 mm
	Total height	236 mm
Approx. Mass	31 kg	
Terminal	M8 threaded post Bolt and Nut type	

■ Duration of discharge vs. discharge current



■ Characteristics

Capacity (25 °C)	20 hour rate	100Ah
	10 hour rate	91Ah
	5 hour rate	82.5Ah
	1 hour rate	62Ah
Internal Resistance	Fully charged battery (25 °C)	8 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%

■ Watt Table(25°C)

Cut-off V	(Wattage/Battery)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	2258	1769	1500	1164	836	733	504	430	281	226	170	154	88.3	47.0	38.5
9.9V	2232	1750	1493	1151	816	714	491	419	276	221	165	149	85.3	47.0	38.5
10.2V	2175	1715	1468	1138	808	694	481	413	272	216	160	145	84.3	46.5	38.0
10.5V	2015	1596	1394	1113	796	675	471	405	267	213	160	145	83.3	46.5	38.0
10.8V	1762	1459	1330	1053	767	666	449	395	262	208	155	150	82.3	45.5	37.2

■ Ampere Table(25°C)

Cut-off V	(Ampere/Battery)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	202	154	129	99.5	71.2	66.7	42.7	38.4	26.5	20.7	17.1	15.1	9.26	5.10	4.24
9.9V	199	152	129	98.4	69.5	65.8	41.6	38.3	26.0	20.6	16.6	15.1	9.26	5.00	4.15
10.2V	194	149	127	97.3	68.9	64.5	40.7	37.3	25.8	20.4	16.5	14.9	9.16	4.99	4.14
10.5V	180	139	120	95.1	67.8	63.2	39.9	36.0	25.4	20.3	16.4	14.8	9.12	4.97	4.13
10.8V	157	127	115	90.0	65.4	60.7	38.0	33.6	24.4	19.6	15.7	14.2	8.85	4.90	4.10

Charging Method

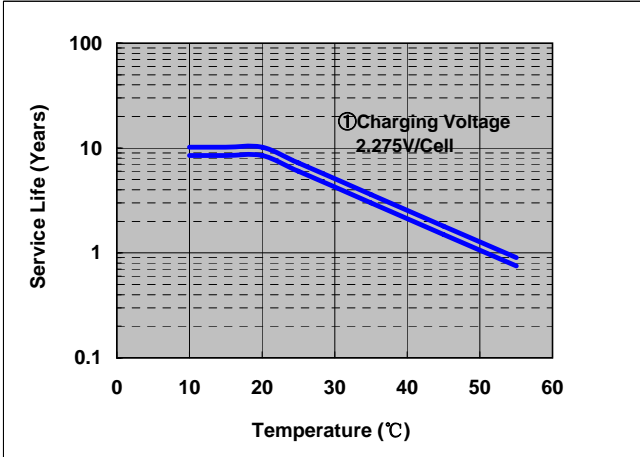
(25°C)

Trickle use	Control voltage 13.6-13.8V; Initial current 15A or smaller
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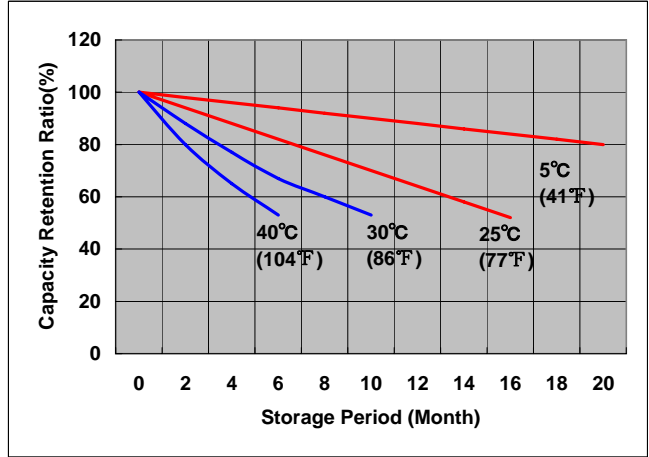
Cut off voltage

Discharge current	5A-20A	20A-50A	50A-100A	100A-200A	200A-300A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

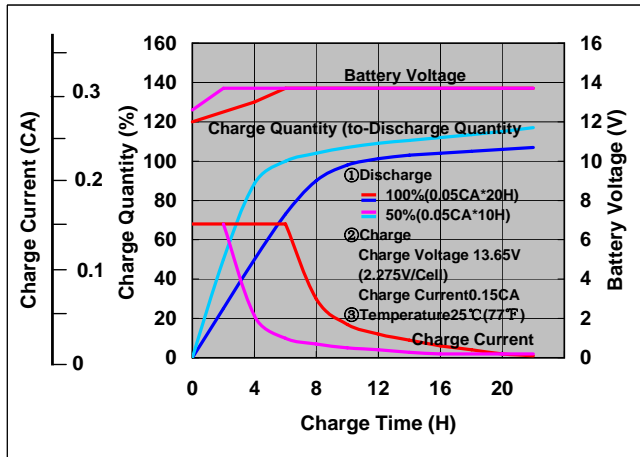
Influence of Temperature on Trickle life



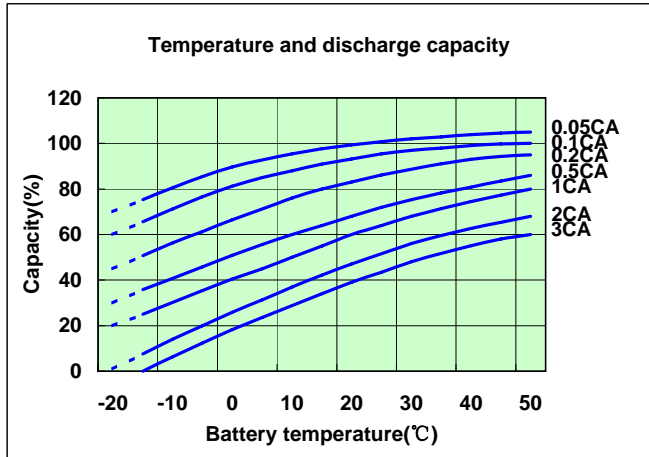
Residual capacity test result



Constant-voltage and constant-current charge characteristics



Discharge capacity by temperature and by discharge current



Discharge characteristics (25°C)

