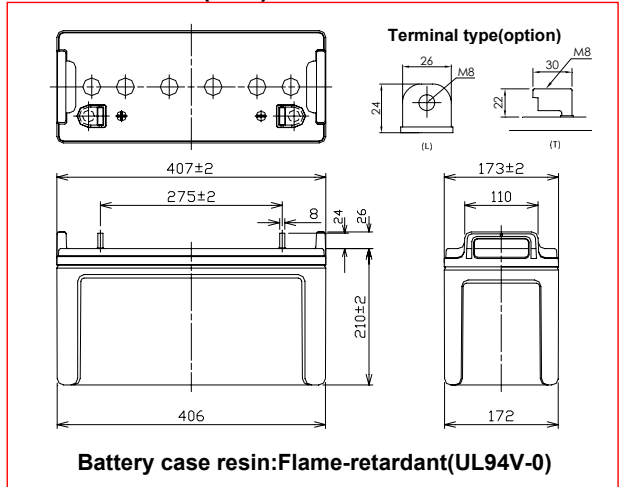


**LC-QA12110**

For standby power supplies  
Expected trickle life: Approx. 10 years at 25°C, approx. 15 years at 20°C

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

**■Dimensions(mm)**



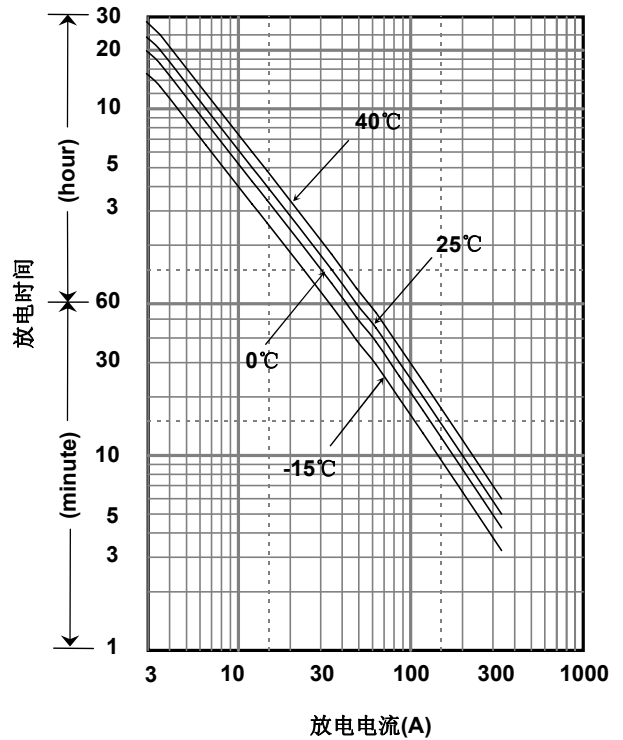
**■Specification**

Nominal Voltage	12V	
Rated Capacity(20HR)	110Ah	
Dimensions	Length	407 mm
	Width	173 mm
	Height	210 mm
	Total height	236mm
Approx. Mass	36.0kg	
Terminal	M8 Bolt and Nut type	

**■Characteristics**

Capacity (25 °C)	20 hour rate	110Ah
	10 hour rate	100Ah
	5 hour rate	95Ah
	1 hour rate	75Ah
Internal Resistance	Fully charged battery (25 °C)	4 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)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	2987	2270	1872	1391	1017	793	578	482	353	279	232	197	124	63.7	54.4
9.9V	2920	2215	1827	1358	995	772	563	469	346	273	225	192	120	63.7	54.4
10.2V	2855	2136	1761	1314	984	751	548	463	340	267	218	186	118	63.0	53.7
10.5V	2764	2110	1748	1303	968	730	532	453	334	264	218	186	117	63.0	53.7
10.8V	2522	2010	1739	1261	933	720	525	442	328	258	212	183	116	61.6	52.6

**■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	272	212	175	133	96.7	76.7	53.6	43.2	30.2	23.3	19.7	16.1	10.2	5.50	4.51
9.9V	269	211	174	132	94.0	76.4	52.6	42.8	29.6	23.1	19.4	16.1	10.2	5.50	4.51
10.2V	268	210	172	130	93.5	75.9	52.1	42.3	29.4	22.9	19.1	16.0	10.1	5.50	4.51
10.5V	245	198	164	128	92.5	75.4	51.5	41.8	29.4	22.9	19.1	16.0	10.1	5.50	4.51
10.8V	232	192	160	126	79.9	65.4	46.4	39.7	28.1	22.3	18.9	15.5	9.99	5.39	4.51

### Charging Method

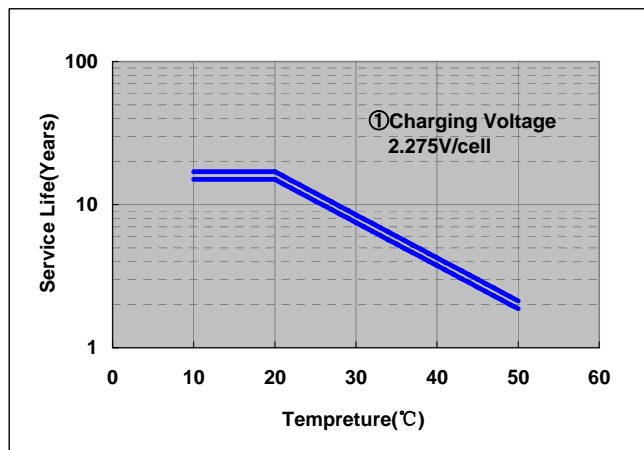
(25°C)

Trickle use	Control voltage 13.6-13.8V; Initial current 16.5A or smaller
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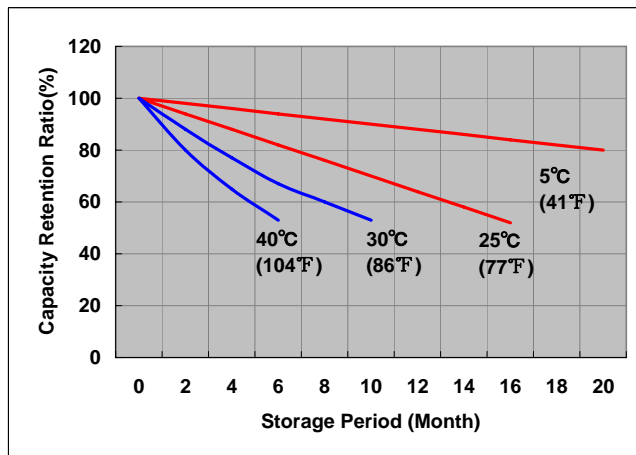
### Cut off voltage

Discharge current	5.5A-22A	22A-55A	55A-110A	110A-220A	220A-330A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

### Influence of Temperature on Trickle life

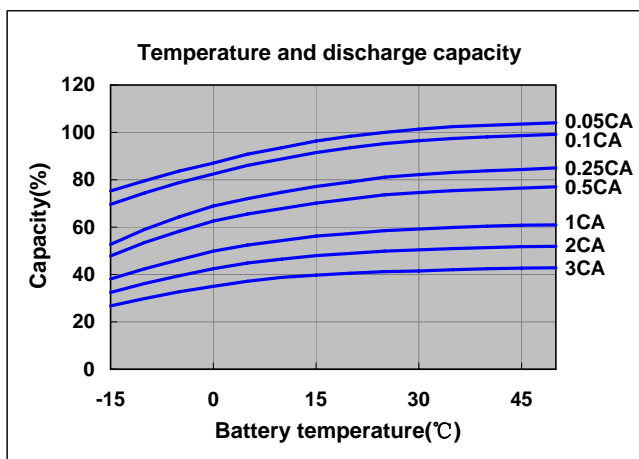
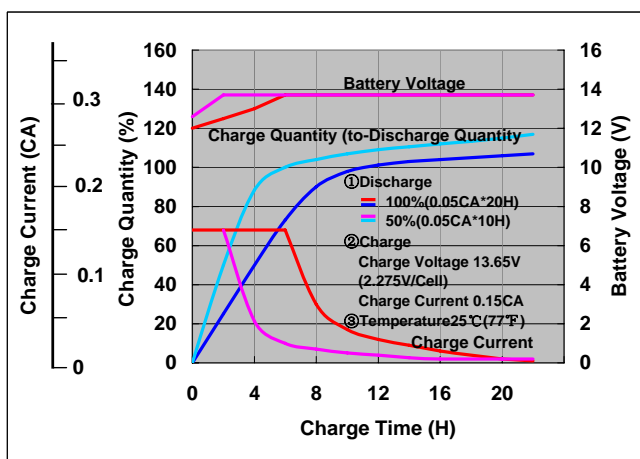


### Residual capacity test result



### Constant-voltage and constant-current charge characteristics

### Discharge capacity by temperature and by discharge current



### Discharge characteristics(25°C)

