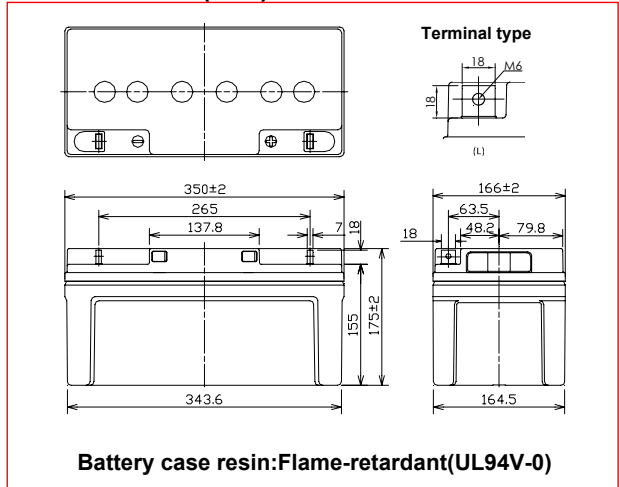


**LC-QA1270**

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)**



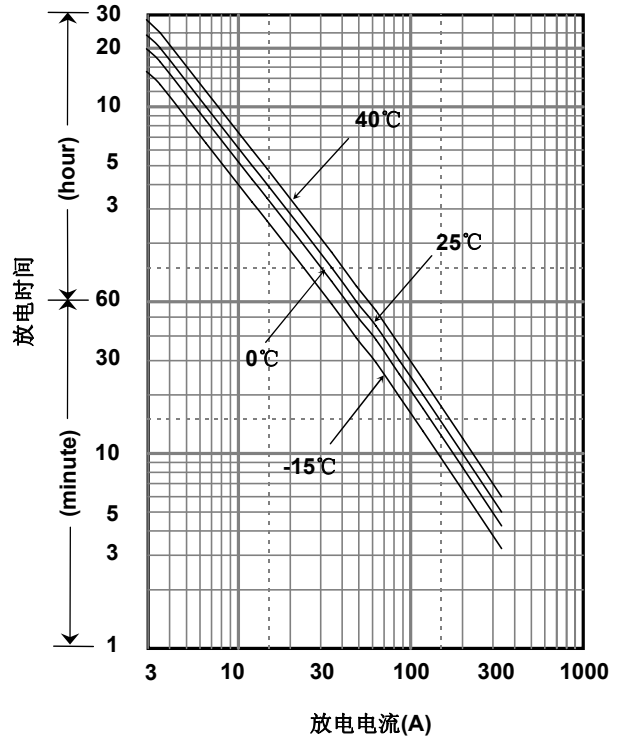
**Specification**

Nominal Voltage		12V
Rated Capacity(20HR)		70Ah
Dimensions	Length	350 mm
	Width	166 mm
	Height	175 mm
	Total height	175mm
Approx. Mass		23.5kg
Terminal		M6 Bolt and Nut type

**Characteristics**

Capacity (25 °C)	20 hour rate	70Ah
	10 hour rate	65Ah
	5 hour rate	60Ah
	1 hour rate	45Ah
Internal Resistance	Fully charged battery (25 °C)	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)**

Cut-off V	(Wattage/Battery)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	1977	1504	1234	916	676	549	386	333	240	181	148	130	75.5	41.7	34.7
9.9V	1947	1491	1227	909	660	520	367	323	234	177	146	127	74.0	41.5	34.7
10.2V	1867	1463	1197	899	655	519	365	311	224	168	138	122	73.1	41.2	34.3
10.5V	1814	1436	1173	884	641	509	358	306	221	166	135	119	73.0	39.8	33.8
10.8V	1704	1357	1153	865	626	499	351	299	219	165	135	119	73.0	39.4	33.6

**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	200	146	118	85.9	62.8	48.4	34.8	27.1	19.4	15.0	12.5	10.4	6.50	3.53	2.94
9.9V	199	144	118	85.0	61.2	47.7	33.9	27.0	19.1	14.8	12.1	10.4	6.50	3.53	2.94
10.2V	197	146	116	83.8	60.9	47.3	33.7	26.8	18.9	14.8	12.1	10.3	6.50	3.53	2.94
10.5V	187	136	110	82.7	59.5	45.6	33.3	26.7	18.9	14.7	12.1	10.3	6.50	3.53	2.94
10.8V	177	132	108	81.4	51.1	41.0	29.4	24.9	17.8	14.4	12.0	10.1	6.50	3.47	2.94

### Charging Method

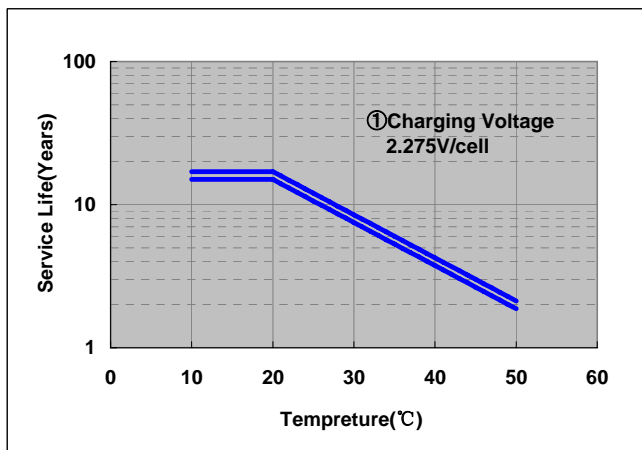
(25°C)

Trickle use	Control voltage 13.6-13.8V; Initial current 10.5A or smaller
-------------	--

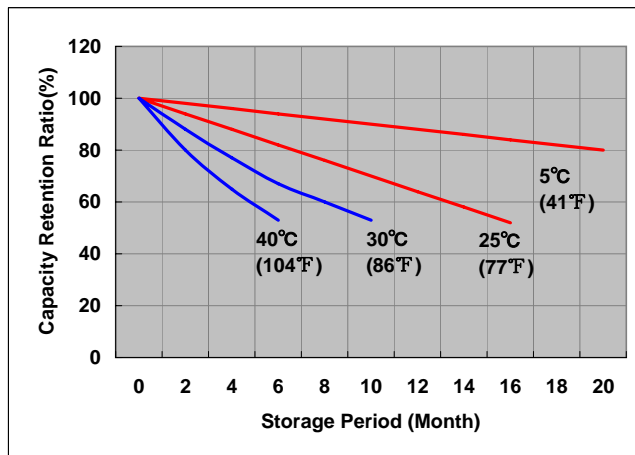
### Cut off voltage

Discharge current	3.5A-14A	14A-35A	35A-70A	70A-140A	140A-210A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

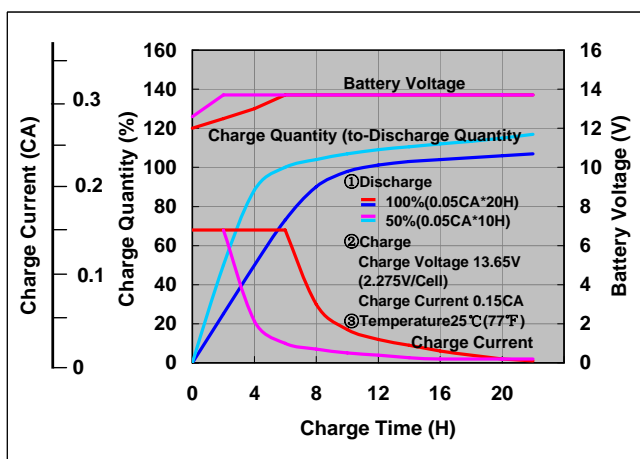
### Influence of Temperature on Trickle life



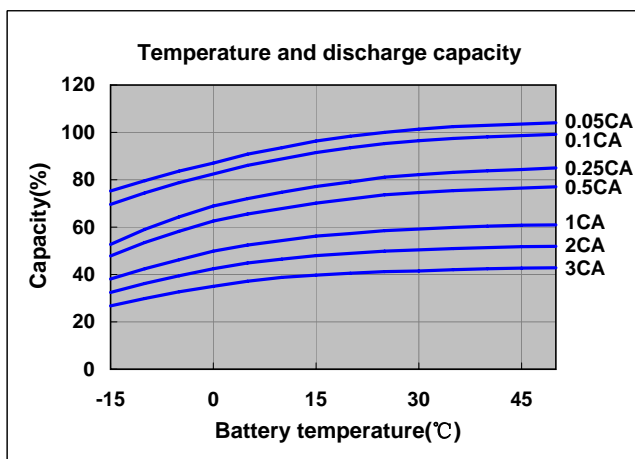
### Residual capacity test result



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



### Discharge capacity by temperature and by discharge current



### Discharge characteristics(25°C)

