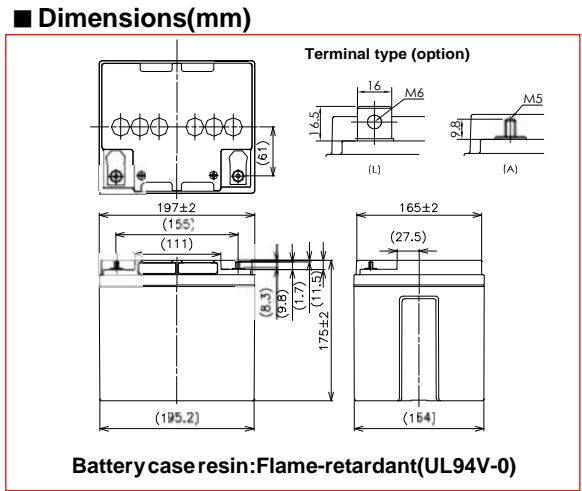


**LC-P1242**

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



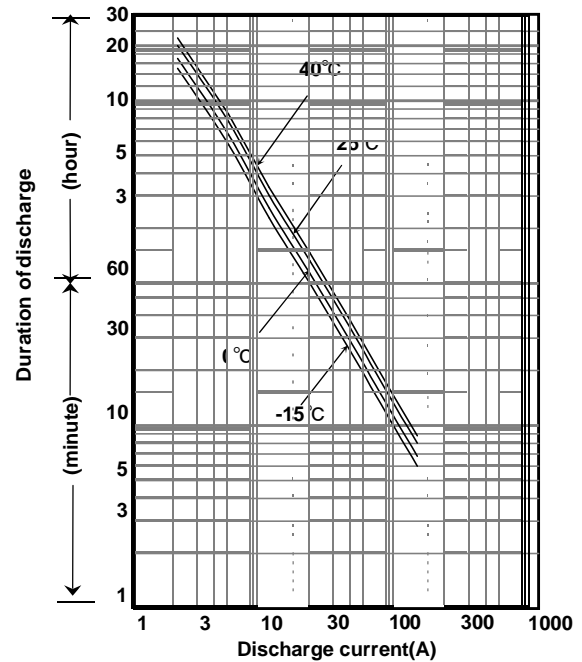
**■ Specification**

Nominal Voltage		12V
Rated Capacity(20HR)		42Ah
Dimensions	Length	197 mm
	Width	165 mm
	Height	175 mm
	Total height	175 mm/180 mm
Approx. Mass		14.0 kg
Terminal		M5 threaded post Bolt and Nut type

**■ Characteristics**

Capacity (25 °C)	20 hour rate	42Ah
	10 hour rate	40Ah
	5 hour rate	37Ah
	1 hour rate	26Ah
Internal Resistance	Fully charged battery (25 °C)	8 m
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/Battery)

Cut-off V	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	1846	1483	1254	966	835	625	410	312	241	187	132	110	89.9	79.1	48.0	25.2	21.0
9.9V	1701	1405	1232	966	824	607	407	310	234	186	130	109	88.7	79.1	48.0	25.2	21.0
10.2V	1612	1327	1210	943	812	596	406	307	217	184	127	108	88.7	77.9	48.0	25.2	21.0
10.5V	1590	1249	1176	920	800	585	405	306	211	184	126	108	88.7	77.9	48.0	25.2	21.0
10.8V	1449	1215	1086	886	777	573	390	295	201	173	121	105	87.5	75.5	48.0	25.2	20.8

**■ Ampere Table(25°C)**

(Ampere/Battery)

Cut-off V	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	166	133	112	84.0	72.0	53.4	34.9	26.5	20.4	15.8	11.1	9.20	7.50	6.60	4.00	2.10	1.75
9.9V	153	126	110	84.0	71.0	51.9	34.7	26.3	19.8	15.7	10.9	9.10	7.40	6.60	4.00	2.10	1.75
10.2V	145	119	108	82.0	70.0	50.9	34.6	26.1	18.4	15.5	10.7	9.00	7.40	6.50	4.00	2.10	1.75
10.5V	143	112	105	80.0	69.0	50.0	34.5	26.0	17.9	15.5	10.6	9.00	7.40	6.50	4.00	2.10	1.75
10.8V	130	109	97.0	77.0	67.0	49.0	33.2	25.0	17.0	14.6	10.2	8.80	7.30	6.30	4.00	2.10	1.73

### ■ Charging Method

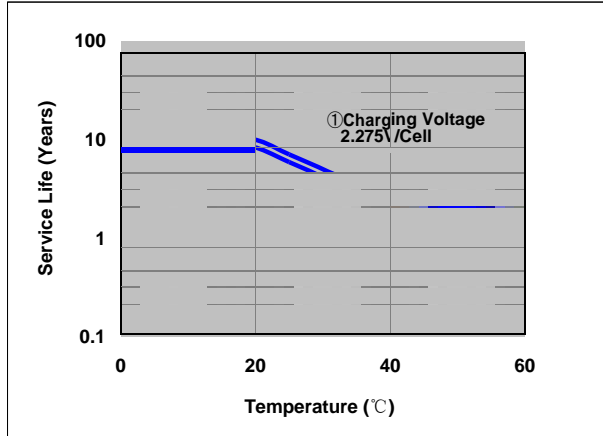
(25°C)

Trickle use	Control voltage 13.6-13.8V; Initial current 6.3A or smaller
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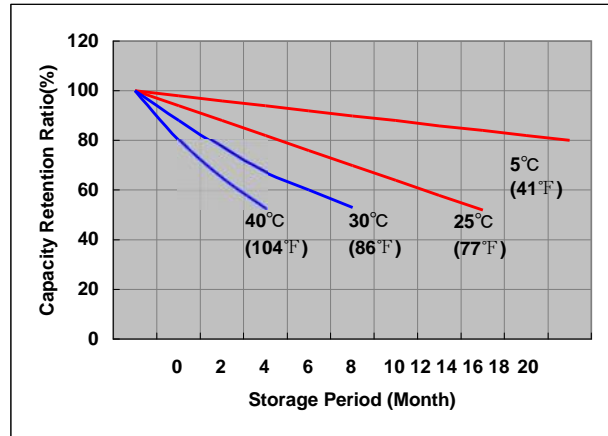
### ■ Cut off voltage

Discharge current	2.1A-8.4A	8.4A-21A	21A-42A	42A-84A	84A-126A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

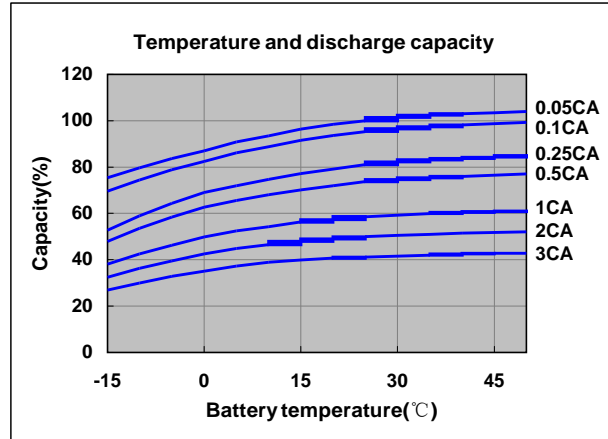
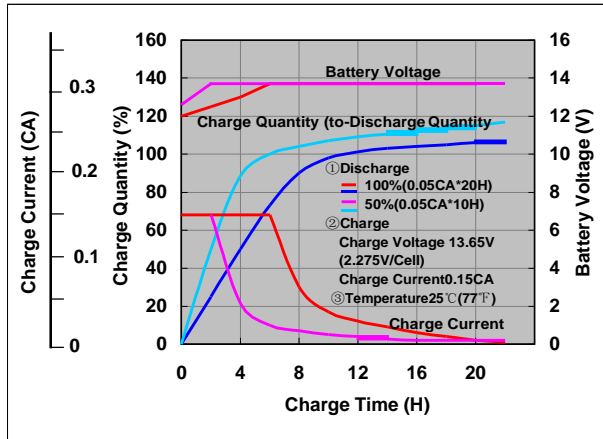
### ■ Influence of Temperature on Trickle life



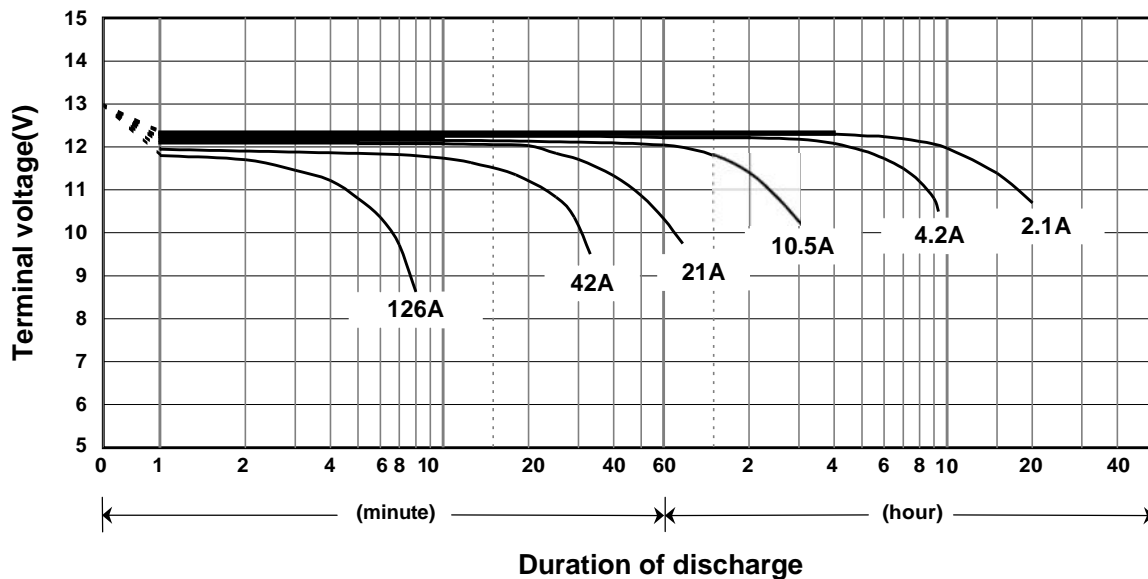
### ■ Residual capacity test result



### ■ Constant-voltage and constant-current charge characteristics ■ Discharge capacity by temperature and by discharge current



### Discharge characteristics(25°C)



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