

LC-R121R3



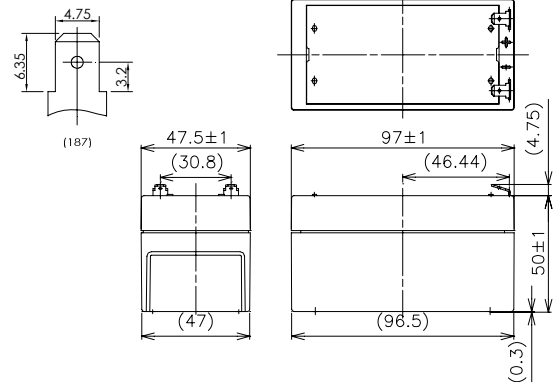
Contents indicated (including the recycle marking, etc) are subject to change without notice.

For main and standby power supplies

Expected trickle life: 3-5 years at 25°C, approx. 5 years at 20°C

■ Dimensions(mm)

Terminal type (option)



Battery case resin: standard(UL94HB)

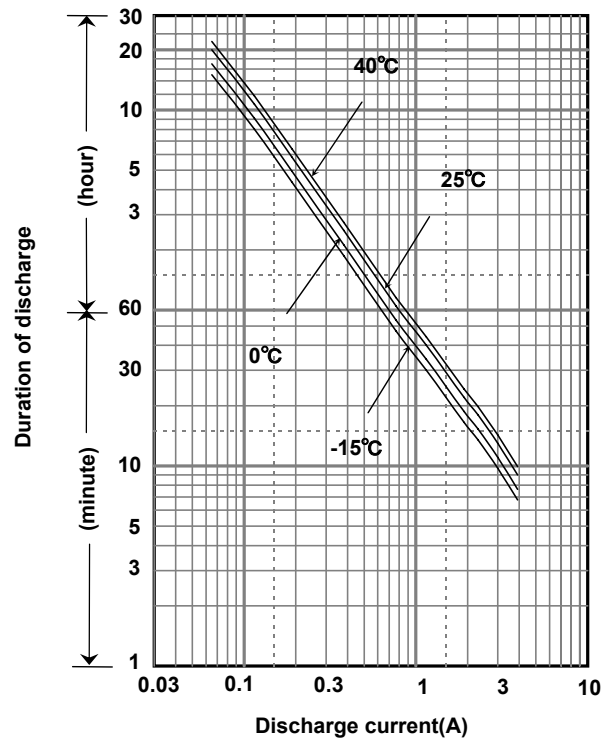
■ Specification

Nominal Voltage		12V
Rated Capacity(20HR)		1.3Ah
Dimensions	Length	97 mm
	Width	47.5 mm
	Height	50 mm
	Total height	55 mm
Approx. Mass		0.55 kg
Terminal		Faston 187

■ Characteristics

Capacity (25 °C)	20 hour rate	1.3Ah
	10 hour rate	1.2Ah
	5 hour rate	1.05Ah
	1 hour rate	0.85Ah
Internal Resistance	Fully charged battery (25 °C)	90 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/Battery)

Cut-off V	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	78.1	61.6	40.2	30.7	25.8	19.2	13.6	10.8	7.49	5.73	4.32	3.30	2.73	2.22	1.46	0.787	0.657
9.9V	72.5	57.8	39.4	30.5	25.3	19.0	13.5	10.8	7.34	5.68	4.30	3.28	2.70	2.21	1.45	0.784	0.654
10.2V	66.9	54.2	38.4	29.9	24.9	18.8	13.4	10.6	7.19	5.54	4.25	3.26	2.68	2.19	1.44	0.782	0.652
10.5V	59.4	48.5	35.6	27.8	23.7	18.4	13.1	10.4	7.04	5.34	4.19	3.24	2.66	2.16	1.43	0.780	0.650
10.8V	50.2	42.9	31.7	26.0	23.0	17.7	12.9	10.2	6.82	5.13	4.08	3.24	2.60	2.16	1.41	0.758	0.650

■ 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	7.02	5.53	3.59	2.67	2.22	1.64	1.16	0.921	0.634	0.484	0.363	0.276	0.228	0.185	0.122	0.0655	0.0655
9.9V	6.52	5.18	3.52	2.65	2.18	1.63	1.15	0.921	0.621	0.480	0.361	0.274	0.226	0.184	0.121	0.0654	0.0545
10.2V	6.01	4.86	3.43	2.60	2.15	1.61	1.14	0.903	0.609	0.468	0.358	0.273	0.224	0.183	0.120	0.0652	0.0543
10.5V	5.34	4.35	3.18	2.42	2.04	1.57	1.12	0.885	0.596	0.451	0.352	0.271	0.222	0.181	0.119	0.0650	0.0542
10.8V	4.51	3.85	2.83	2.26	1.99	1.52	1.10	0.867	0.578	0.433	0.343	0.271	0.217	0.181	0.117	0.0632	0.0542

■ Charging Method

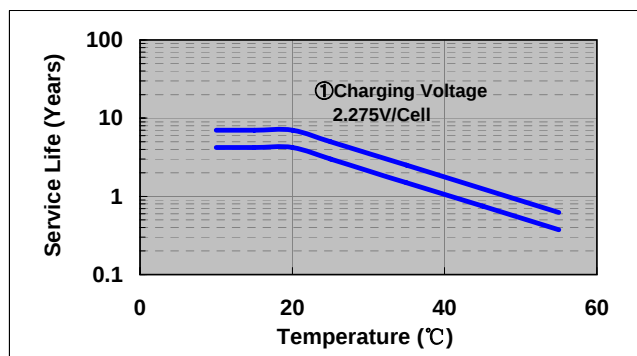
(25°C)

Cycle use	Control voltage:14.5-14.9V;Initial current0.52A or smaller
Trickle use	Control voltage:13.6-13.8V;Initial current:1.08A or smaller

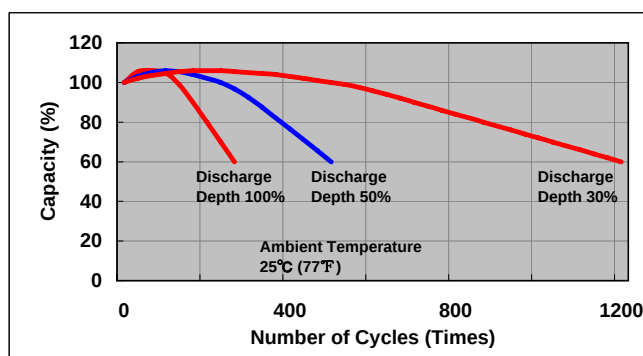
■ Cut off voltage

Discharge current	0.065A-0.26A	0.26A-0.65A	0.65A-1.3A	1.3A-2.6A	2.6A-3.9A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

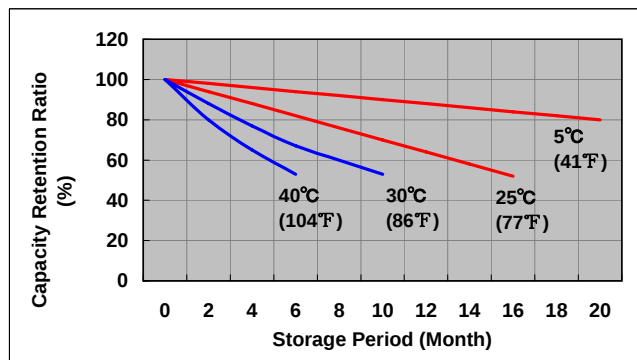
■ Influence of Temperature on Trickle life



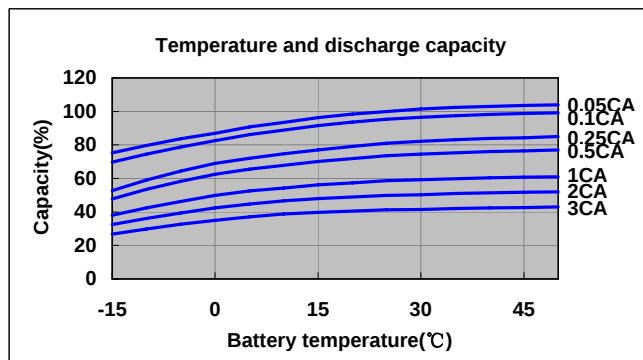
■ Cycle life vs. Depth of discharge



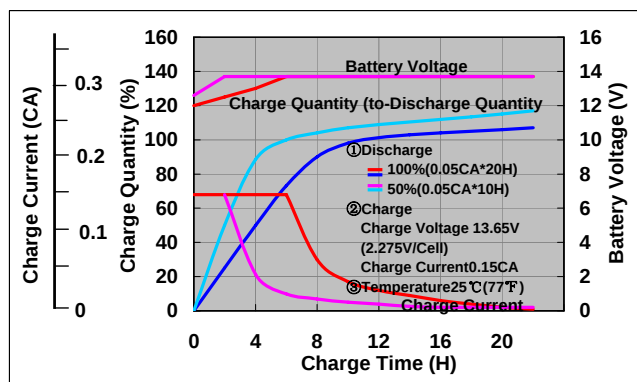
■ Residual capacity test result



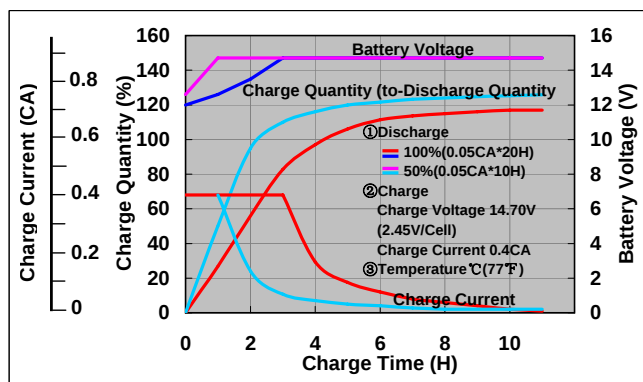
■ Discharge capacity by temperature and by discharge current



■ Constant-voltage constant-current charge characteristics for Trickle use



■ Constant-voltage constant-current charge characteristics for Cycle use



■ Discharge characteristics(25°C)

