

LC-RA1212

For main and standby power supplies

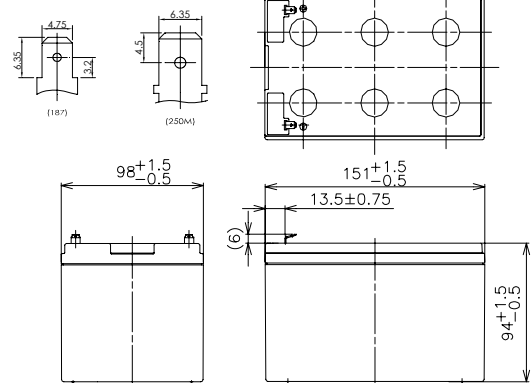
Expected trickle life:3-5years at 25°C, approx.5 years at 20°C



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

■ Dimensions(mm)

Terminal type (option)



Battery case resin:standard(UL94HB)

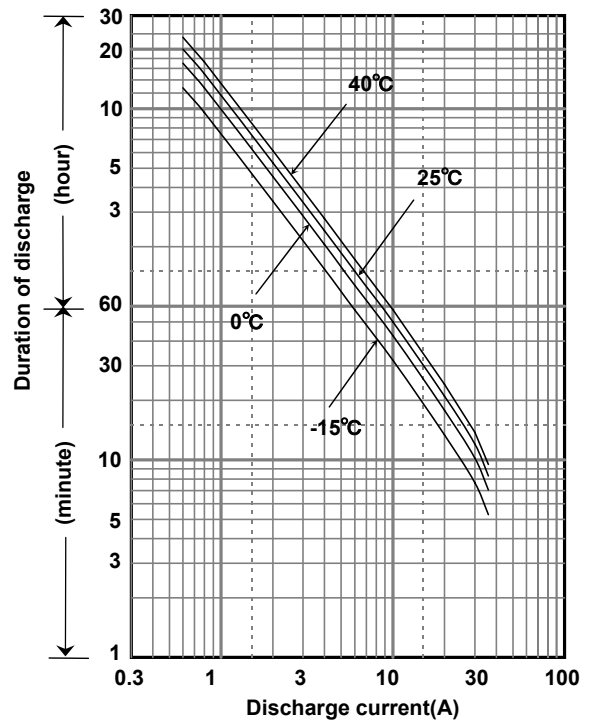
■ Specification

Nominal Voltage		12V
Rated Capacity(20HR)		12Ah
Dimensions	Length	151 mm
	Width	98 mm
	Height	94 mm
	Total height	100 mm
Approx. Mass		3.85 kg
Terminal		Faston 187 & 250M

■ Characteristics

Capacity (25 °C)	20 hour rate	12Ah
	10 hour rate	11.3Ah
	5 hour rate	10.4Ah
	1 hour rate	8.1Ah
Internal Resistance	Fully charged battery (25 °C)	15 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	679	559	384	298	247	183	137	105	70.3	54.5	38.1	28.8	24.1	21.7	13.3	7.22	6.02
9.9V	649	537	373	288	241	177	135	104	69.9	54.2	37.8	28.8	24.1	21.7	13.3	7.22	6.02
10.2V	607	506	363	282	235	177	134	102	69.1	53.9	37.5	28.8	24.0	21.6	13.2	7.21	6.01
10.5V	556	475	343	271	231	172	133	100	68.5	53.3	36.9	28.7	24.0	21.6	13.2	7.20	6.00
10.8V	495	434	321	261	225	166	123	98	66.1	52.1	36.3	28.4	23.8	21.5	13.1	7.18	5.98

■ 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	61.1	50.1	34.3	25.9	21.3	15.6	11.7	8.90	5.95	4.60	3.20	2.41	2.01	1.81	1.11	0.602	0.502
9.9V	58.4	48.2	33.3	25.0	20.8	15.1	11.5	8.80	5.92	4.58	3.18	2.41	2.01	1.81	1.11	0.602	0.502
10.2V	54.6	45.4	32.4	24.5	20.3	15.1	11.4	8.70	5.85	4.55	3.15	2.41	2.00	1.80	1.10	0.601	0.501
10.5V	50.0	42.6	30.6	23.6	19.9	14.7	11.3	8.50	5.80	4.50	3.10	2.40	2.00	1.80	1.10	0.600	0.500
10.8V	44.5	38.9	28.7	22.7	19.4	14.2	10.5	8.30	5.60	4.40	3.05	2.38	1.99	1.79	1.09	0.598	0.498

■ Charging Method

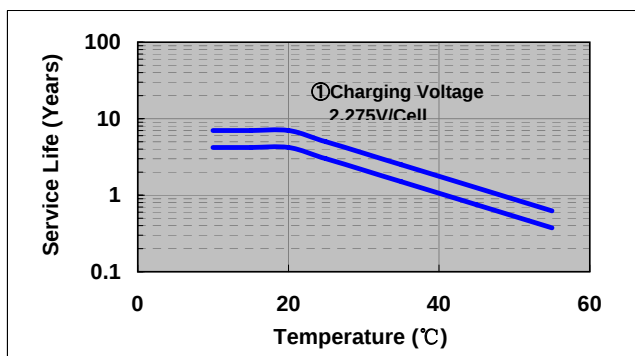
(25°C)

Cycle use	Control voltage:14.5-14.9V;Initial current4.8A or smaller
Trickle use	Control voltage:13.6-13.8V;Initial current:1.8A or smaller

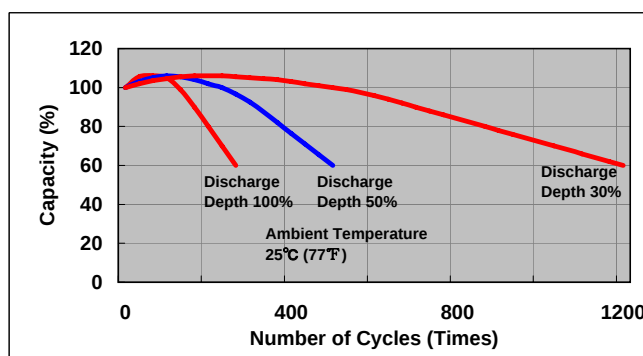
■ Cut off voltage

Discharge current	0.6A-2.4A	2.4A-6A	6A-12A	12A-24A	24A-36A
Cut off voltage(V)	10.5	10.2	9.9	9.3	8.7

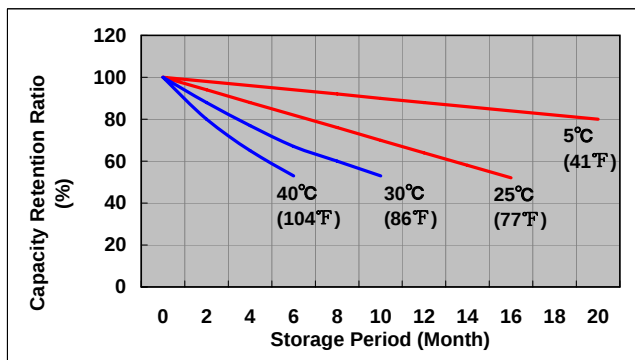
■ Influence of Temperature on Trickle life



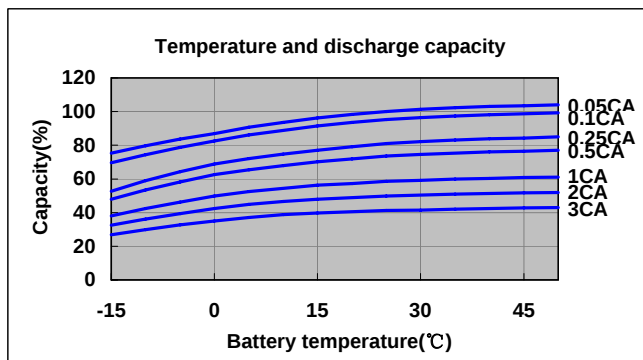
■ Cycle life vs. Depth of discharge



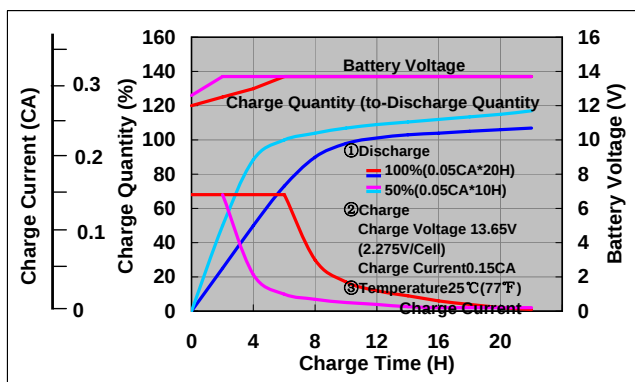
■ Residual capacity test result



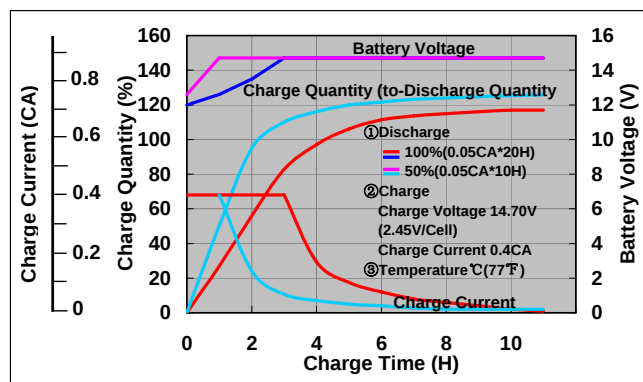
■ Discharge capacity by temperature and by discharge current



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



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



■ Discharge characteristics(25°C)

