

**LC-RA1212PG**

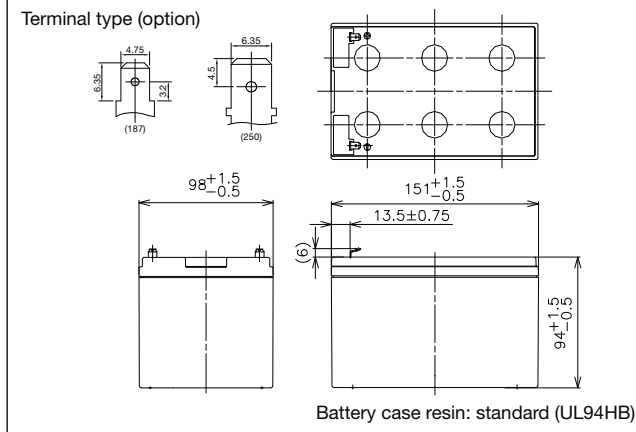
For main and standby power supplies. Expected trickle design life: 6 – 9 years at 20°C according to Eurobat.

VdS

G100001



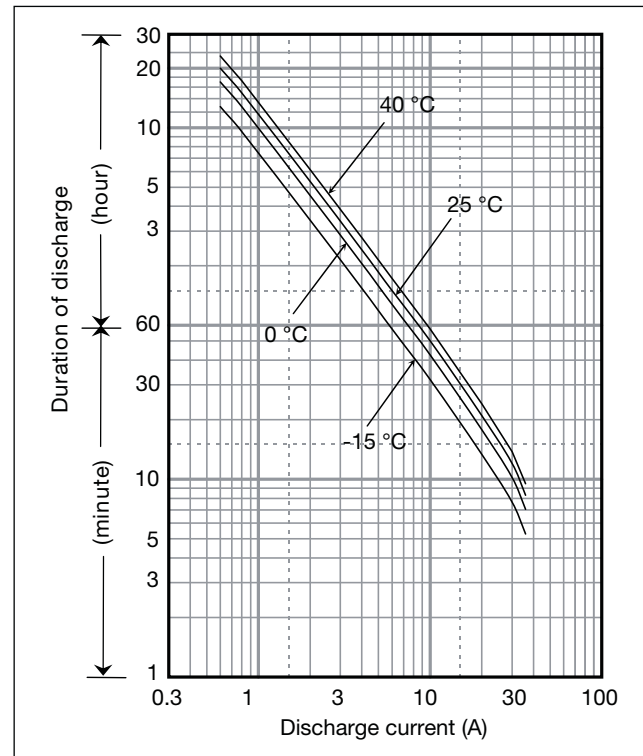
**Dimensions (mm)**



**Specifications**

Nominal voltage	12V	
Nominal capacity (20 hour rate)	12Ah	
Dimensions	Length	151mm
	Width	98mm
	Height	94mm
	Total Height	100mm
Approx. mass	3.8kg	
Terminal	Faston 187 or Faston 250 with hole	

**Duration of discharge vs Discharge current**



**Characteristics**

Capacity (25°C)	20 hour rate	12.0Ah
	10 hour rate	11.3Ah
	5 hour rate	10.4Ah
Internal resistance	Fully charged battery (25°C)	30mΩ
	1 hour rate	8.1Ah
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%

**Watt Table**

Cut-off V	(Wattage/Battery)																							
	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							

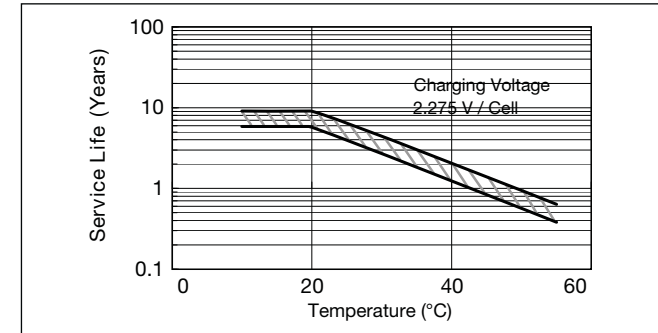
**Ampere Table**

Cut-off V	(Ampere/Battery)																							
	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**

Cycle use	Control voltage: 14.5 - 14.9V; Initial current: 4.8A or smaller
Trickle use	Control voltage: 13.6 - 13.8V; Initial current: 1.8A or smaller

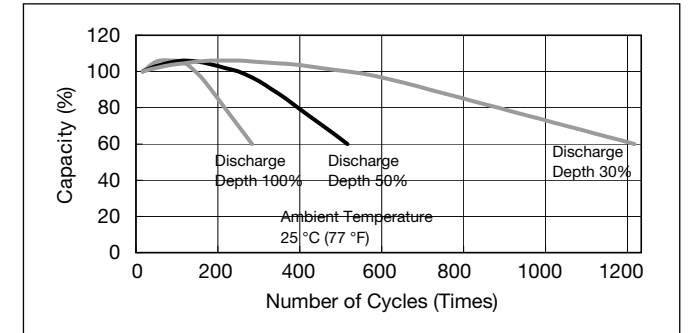
**Influence of Temperature on Trickle life**



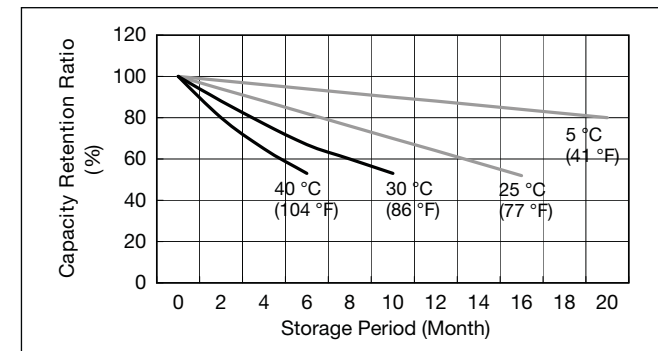
**Cut off voltage**

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

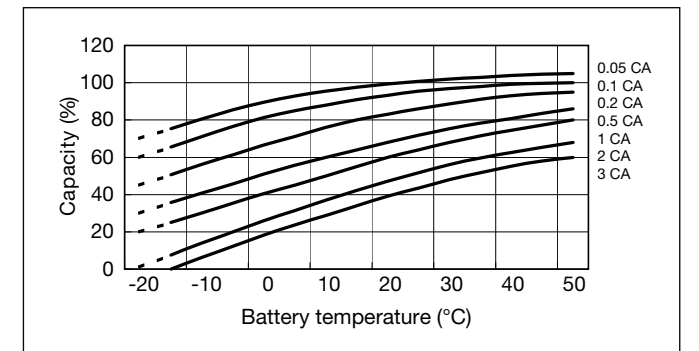
**Cycle life vs Depth of discharge**



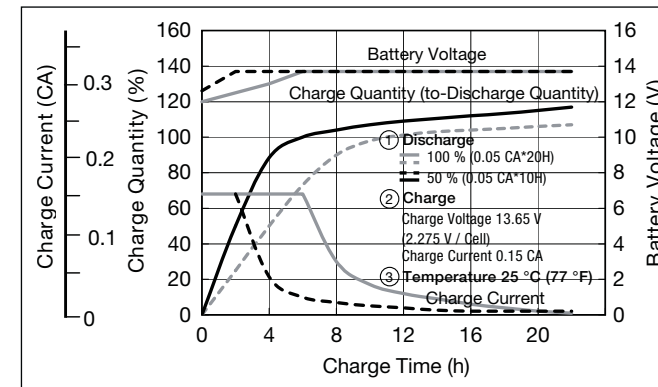
**Residual capacity vs storage period**



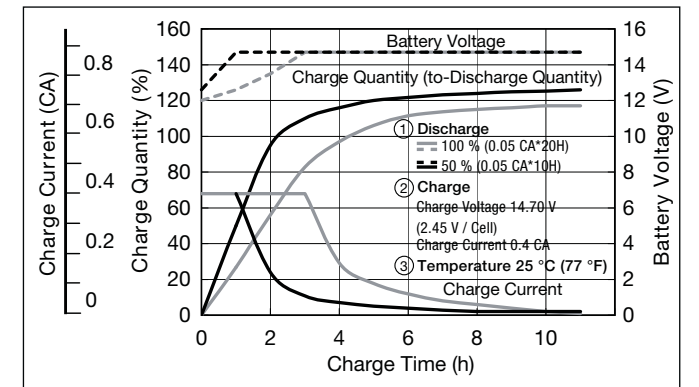
**Discharge capacity by temperature and by discharge current**



**Constant-voltage and constant-current charge characteristics for Trickle use**



**Constant-voltage and constant-current charge characteristics for Cycle use**



**Discharge characteristics**

