

## LC-X1238 PG/APG

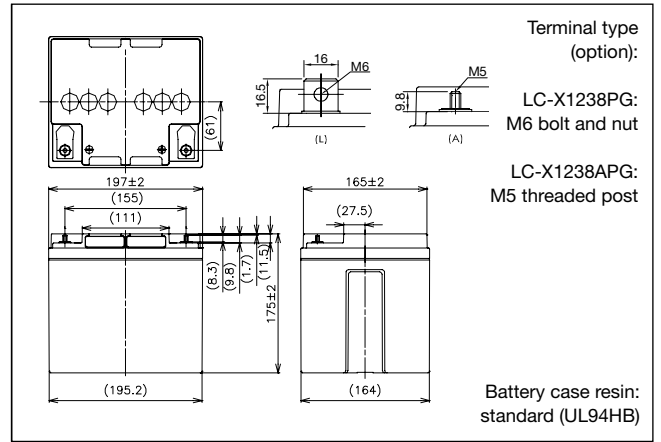
For standby power supplies. Expected trickle design life:  
10 – 12 years at 20 °C according to Eurobat.

VdS

G100002



### Dimensions (mm)



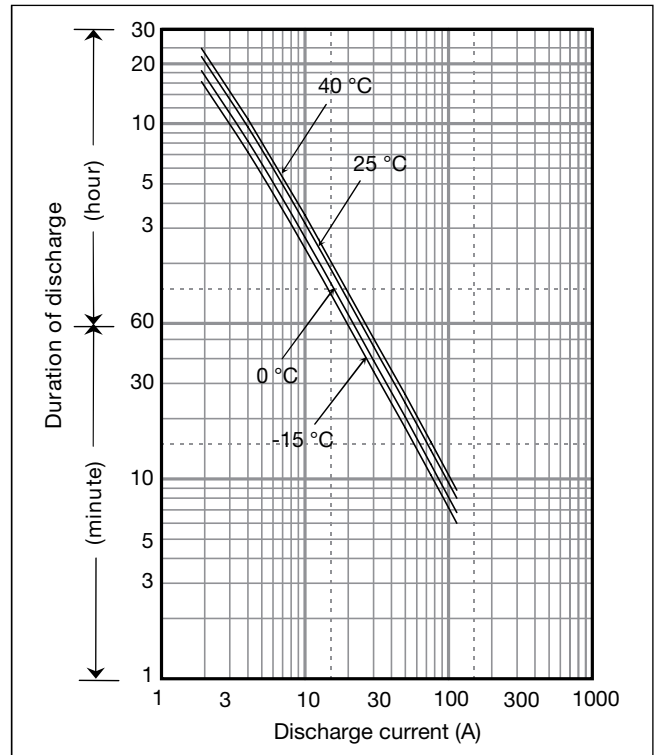
### Specifications

Nominal voltage	12 V	
Nominal capacity (20 hour rate)	38 Ah	
Dimensions	Length	197 mm
	Width	165 mm
	Height	175 mm
	Total Height	LC-X1238PG: 180 mm LC-X1238APG: 175 mm
Approx. mass	13 kg	
Terminal	M6 Bolt and Nut type/ M5 threaded post	

### Characteristics

Capacity (25 °C)	20 hour rate	38.0 Ah
	10 hour rate	35.0 Ah
	5 hour rate	31.5 Ah
	1 hour rate	22.5 Ah
Internal resistance	Fully charged battery (25 °C)	8 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

(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	1668	1349	1030	800	686	505	351	276	214	169	123	99.2	77.9	68.3	42.0	22.8	19.0
9.9V	1535	1271	1008	788	682	500	350	269	209	168	120	98.0	76.7	68.3	42.0	22.8	19.0
10.2V	1457	1204	980	768	672	489	349	267	185	167	119	96.8	75.5	68.3	42.0	22.8	19.0
10.5V	1446	1126	952	748	661	480	346	265	183	166	119	96.8	75.5	68.3	42.0	22.8	19.0
10.8V	1311	1098	874	716	640	468	308	247	175	155	114	94.4	74.3	67.1	42.0	22.8	18.7

### Ampere Table

(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	150	121	92.0	69.6	59.1	43.2	29.9	23.4	18.1	14.3	10.3	8.3	6.5	5.7	3.50	1.90	1.58
9.9V	138	114	90.0	68.5	58.8	42.7	29.8	22.8	17.7	14.2	10.1	8.2	6.4	5.7	3.50	1.90	1.58
10.2V	131	108	87.5	66.8	57.9	41.8	29.7	22.7	15.7	14.1	10.0	8.1	6.3	5.7	3.50	1.90	1.58
10.5V	130	101	85.0	65.0	57.0	41.0	29.5	22.5	15.5	14.0	10.0	8.1	6.3	5.7	3.50	1.90	1.58
10.8V	118	98.5	78.0	62.3	55.2	40.0	26.2	21.0	14.8	13.1	9.6	7.9	6.2	5.6	3.50	1.90	1.56

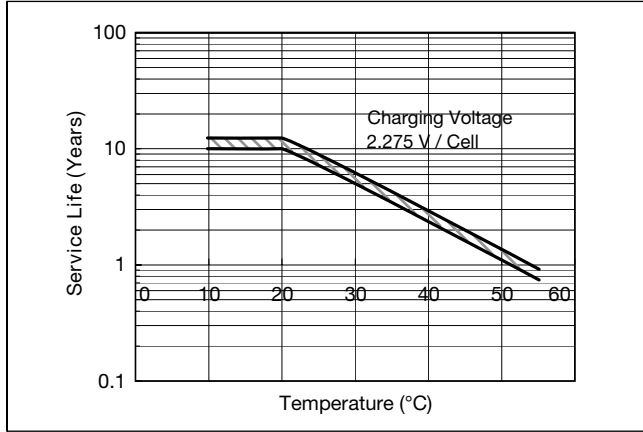
## Charging Method

Trickle use Control voltage: 13.6 - 13.8 V; Initial current: 5.7 A or smaller

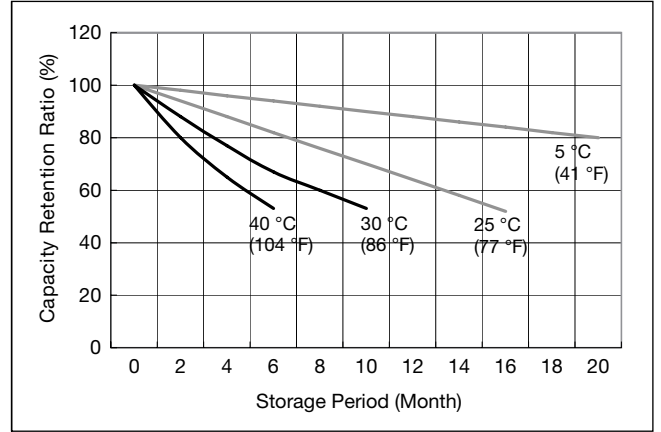
## Cut off voltage

Discharge current	1.9 A - 7.6 A	7.6 A - 19 A	19 A - 38 A	38 A - 76 A	76 A - 114 A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

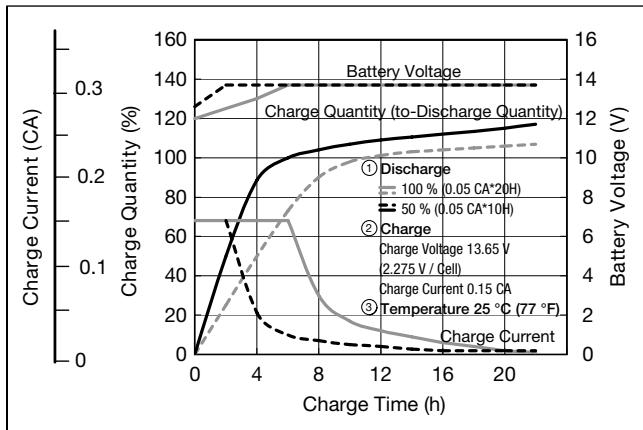
## Influence of Temperature on Trickle life



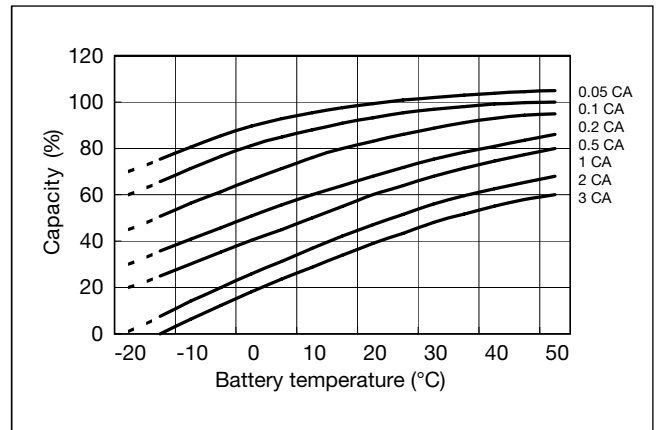
## Residual capacity vs storage period



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



## Discharge capacity by temperature and by discharge current



## Discharge characteristics

