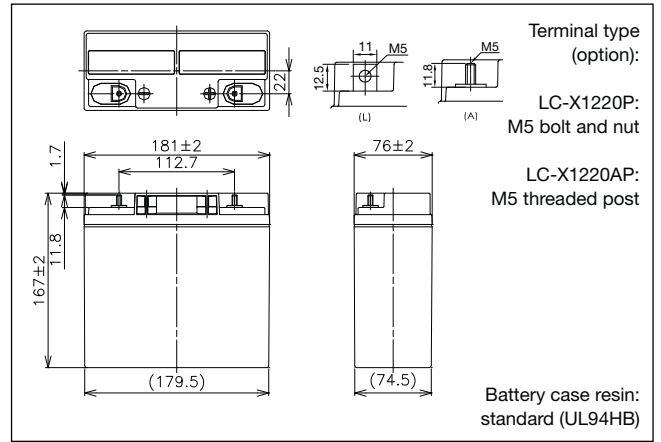


LC-X1220P/AP*1

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



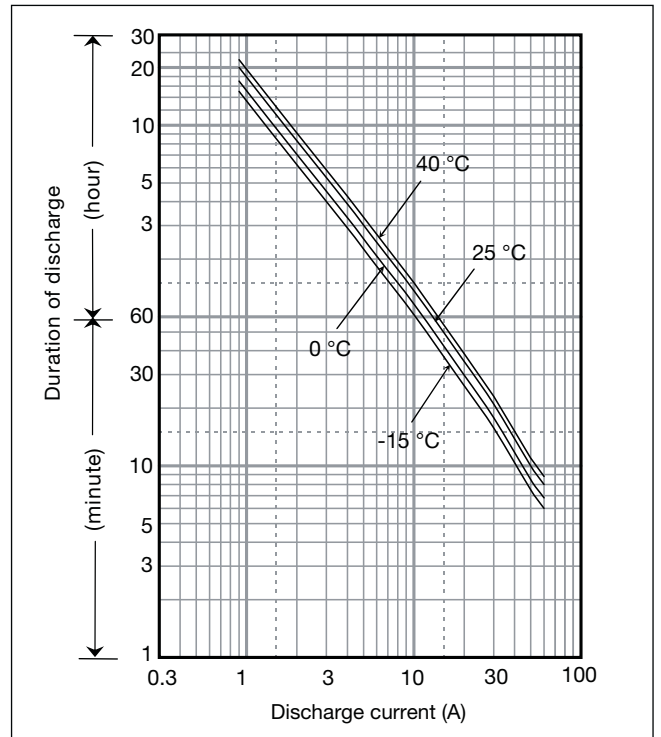
Dimensions (mm)



Specifications

Nominal voltage	12V	
Nominal capacity (20 hour rate)	20Ah	
Dimensions	Length	181mm
	Width	76mm
	Height	167mm
	Total Height	167mm
Approx. mass	6.6kg	
Terminal	M5 Bolt and Nut type/ M5 threaded post	

Duration of discharge vs Discharge current



Characteristics

Capacity (25°C)	20 hour rate	20Ah
	10 hour rate	18Ah
	5 hour rate	16Ah
	1 hour rate	12Ah
Internal resistance	Fully charged battery (25°C)	11mΩ
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

(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	1202	948	619	473	396	296	209	167	115	88.8	66.1	50.8	41.9	33.7	22.3	12.1	10.1
9.9V	1115	889	607	470	390	293	207	167	113	88.1	65.8	50.5	41.6	33.6	22.2	12.1	10.1
10.2V	1029	833	591	460	383	289	205	164	110	85.8	65.1	50.1	41.3	33.3	22.0	12.0	10.0
10.5V	914	746	548	428	364	283	202	160	108	82.9	64.1	49.8	40.9	32.9	21.9	12.0	10.0
10.8V	772	660	488	399	354	273	199	157	105	78.9	62.8	49.1	39.9	32.4	21.7	11.9	9.93

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	108	85.0	55.3	41.1	34.2	25.3	17.8	14.2	9.72	7.50	5.56	4.25	3.50	2.81	1.86	1.01	0.84
9.9V	100	79.7	54.2	40.8	33.6	25.0	17.7	14.2	9.53	7.44	5.53	4.22	3.47	2.80	1.85	1.01	0.84
10.2V	92.5	74.7	52.8	40.0	33.1	24.7	17.5	13.9	9.33	7.25	5.47	4.19	3.44	2.78	1.83	1.00	0.84
10.5V	82.2	66.9	48.9	37.2	31.4	24.2	17.2	13.6	9.14	7.00	5.39	4.17	3.42	2.74	1.83	1.00	0.83
10.8V	69.4	59.2	43.6	34.7	30.6	23.3	16.9	13.3	8.89	6.67	5.28	4.11	3.33	2.70	1.81	0.99	0.83

*1 This battery is also available with a flame retardant battery case resin (UL94 V-0).

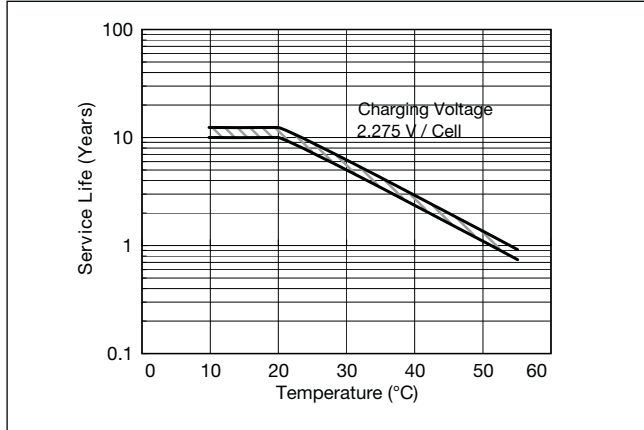
Charging Method

Trickle use Control voltage: 13.6 - 13.8V; Initial current: 3A or smaller

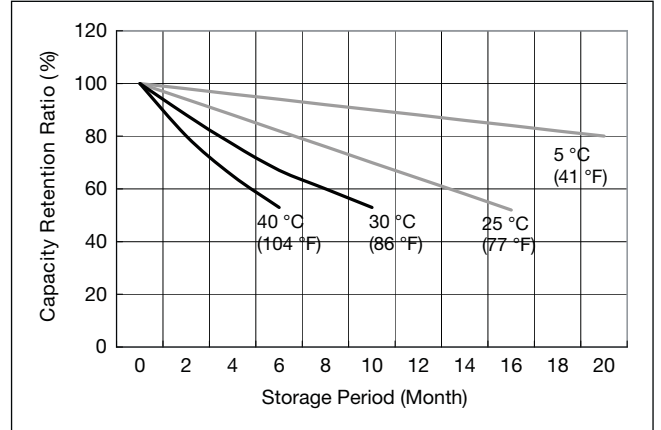
Cut off voltage

Discharge current	1A - 4A	4A - 10A	10A - 20A	20A - 40A	40A - 60A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

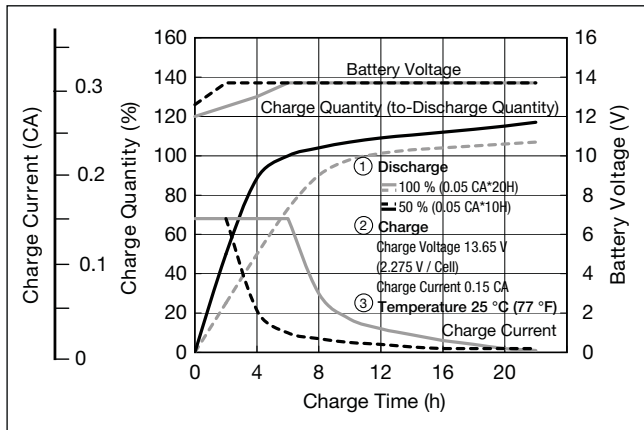
Influence of Temperature on Trickle life



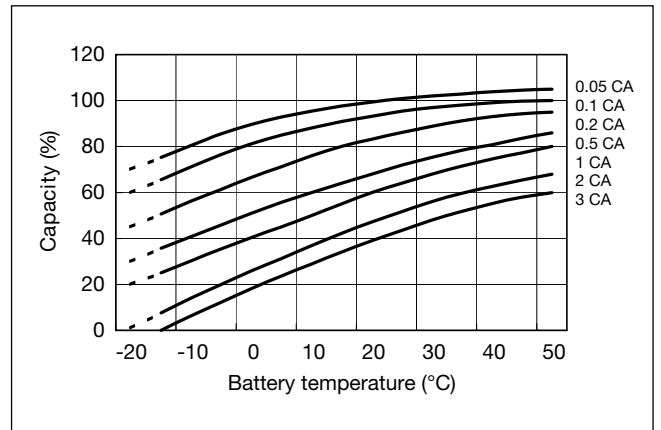
Residual capacity vs storage period



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



Discharge capacity by temperature and by discharge current



Discharge characteristics

