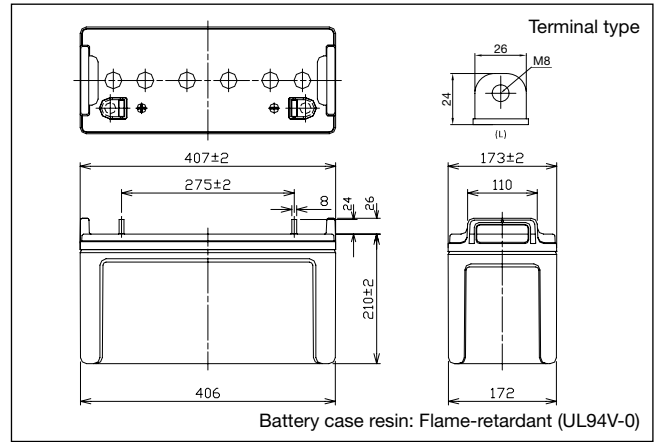


LC-QA12120

For standby power supplies.
Expected trickle design life: 17 years at 20 °C according to Eurobat.



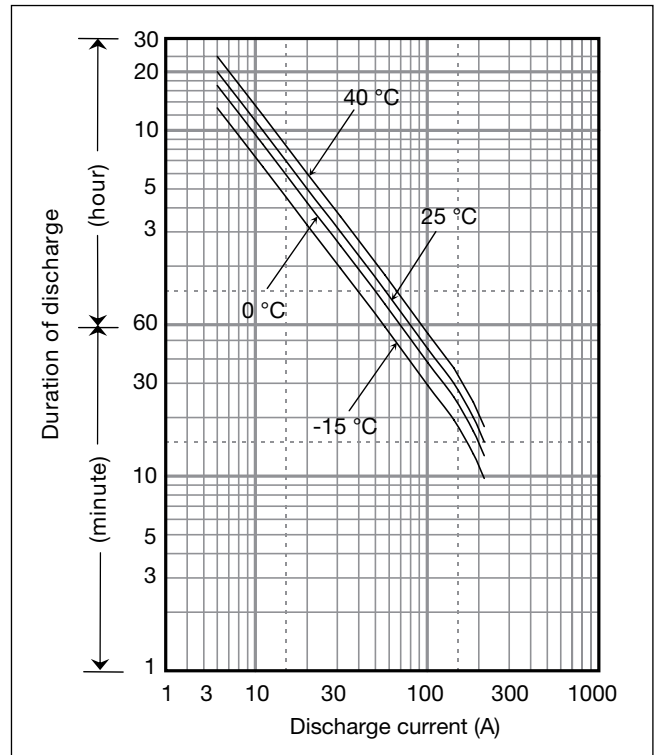
Dimensions (mm)



Specifications

Nominal voltage	12 V	
Nominal capacity (20 hour rate)	120 Ah	
Dimensions	Length	407 mm
	Width	173 mm
	Height	210 mm
	Total Height	236 mm
Approx. mass	44 kg	
Terminal	M8 Bolt and Nut type	

Duration of discharge vs Discharge current



Characteristics

Capacity (25 °C)	20 hour rate	120 Ah
	10 hour rate	109 Ah
	5 hour rate	95 Ah
	1 hour rate	74 Ah
Internal resistance	Fully charged battery (25 °C)	4 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 %

Watt Table

Cut-off V	(Wattage/Battery)													
	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	2133	1848	1409	1036	835	663	499	326	249	188	171	99.1	57.6	44.7
9.9V	2078	1805	1370	1018	820	662	486	322	244	183	169	98.8	57.5	44.7
10.2V	2053	1762	1322	1008	805	642	479	315	238	177	161	96.2	57.4	44.7
10.5V	1936	1695	1316	992	764	629	470	310	235	176	159	96.6	57.4	44.6
10.8V	1901	1669	1281	974	772	629	458	306	229	172	156	95.5	57.3	44.6

Ampere Table

Cut-off V	(Ampere/Battery)													
	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	229	198	149	105	86.9	59.3	47.9	32.1	23.7	20.6	17.4	11.1	6.00	5.04
9.9V	228	197	148	102	86.6	58.1	47.5	31.5	23.4	20.4	17.4	11.1	6.00	5.04
10.2V	227	195	146	102	85.9	57.7	46.9	31.2	23.2	20.0	17.3	11.0	6.00	5.04
10.5V	215	186	143	101	85.4	56.9	46.3	31.3	23.2	20.0	17.3	11.0	6.00	5.04
10.8V	208	181	141	86.9	74.0	51.2	44.0	29.9	22.7	19.8	16.7	10.9	5.88	5.00

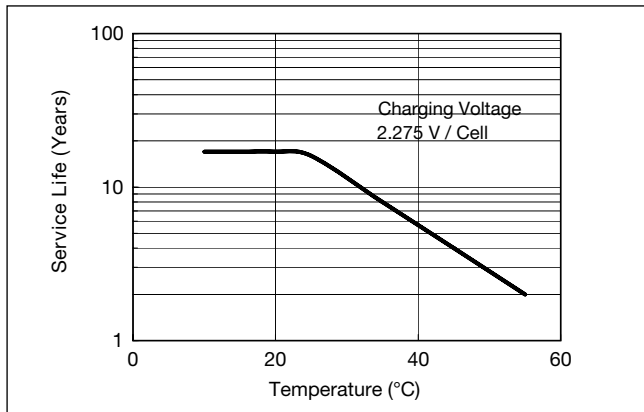
Charging Method

Trickle Use	Control voltage: 13.6 - 13.8 V; Initial current: 18 A or smaller
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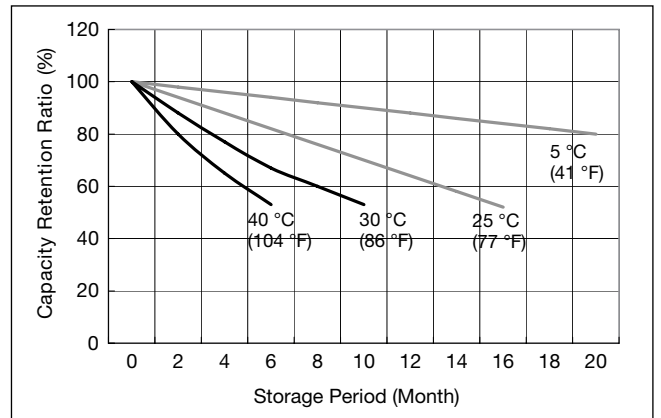
Cut off voltage

Discharge current	6 A - 24 A	24 A - 60 A	60 A - 120 A	120 A - 240 A	240 A - 360 A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

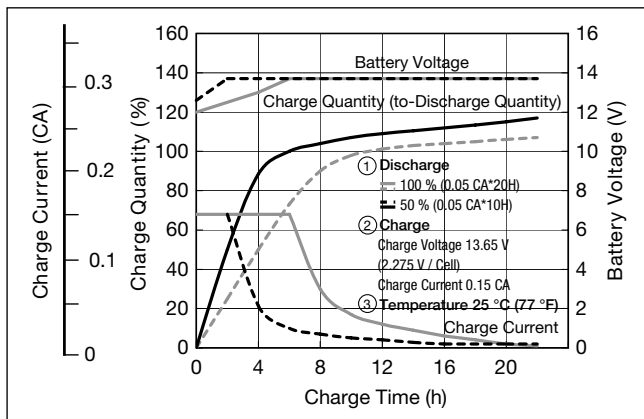
Influence of Temperature on Trickle life



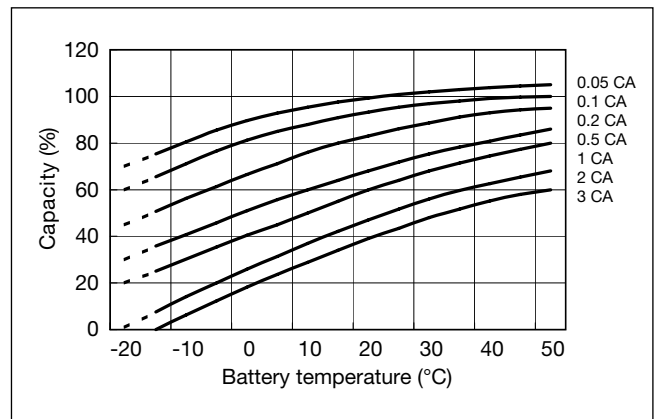
Residual capacity vs storage period



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



Discharge capacity by temperature and by discharge current



Discharge characteristics

