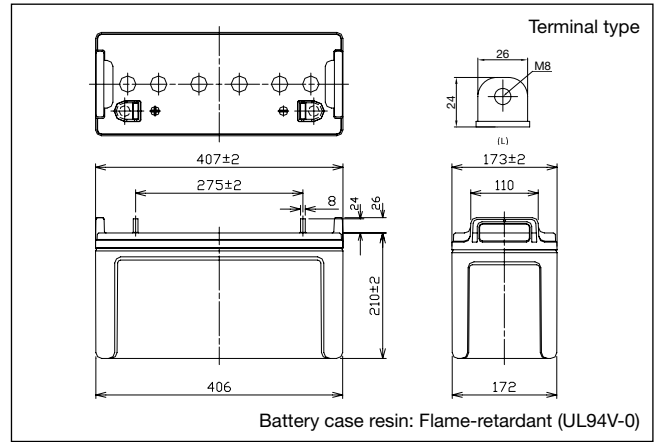


**LC-QA12100**

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



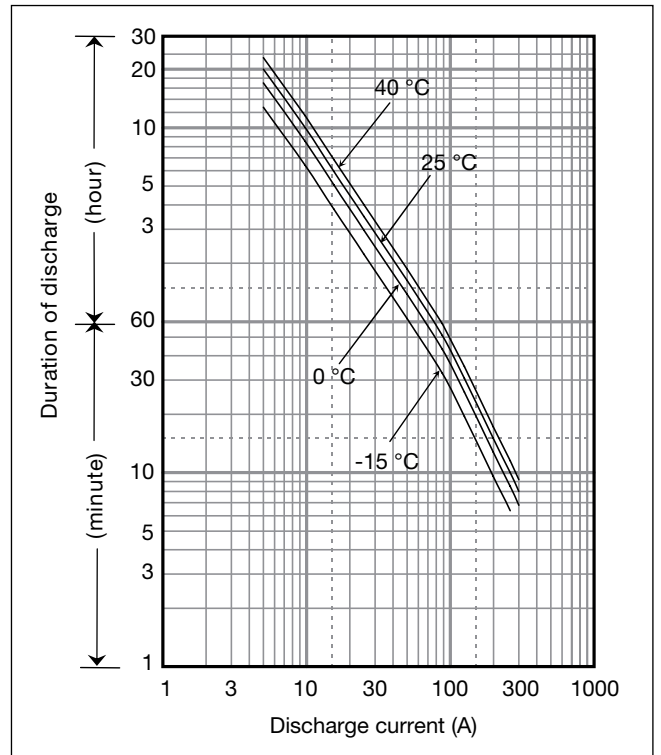
**Dimensions (mm)**



**Specifications**

Nominal voltage	12 V	
Nominal capacity (20 hour rate)	100 Ah	
Dimensions	Length	407 mm
	Width	173 mm
	Height	210 mm
	Total Height	236 mm
Approx. mass	37 kg	
Terminal	M8 Bolt and Nut type	

**Duration of discharge vs Discharge current**



**Characteristics**

Capacity (25 °C)	20 hour rate	100 Ah
	10 hour rate	95 Ah
	5 hour rate	88 Ah
	1 hour rate	68 Ah
Internal resistance	Fully charged battery (25 °C)	4.5 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)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	2306	1834	1592	1206	961	733	582	430	281	226	170	154	88.3	47.0	38.5
9.9V	2254	1790	1554	1177	940	714	567	419	276	221	165	149	85.3	47.0	38.5
10.2V	2204	1726	1498	1139	930	694	551	413	272	216	160	145	84.3	46.5	38.0
10.5V	2134	1705	1487	1130	915	675	536	405	267	213	160	145	83.3	46.5	38.0
10.8V	1947	1624	1479	1094	882	666	528	395	262	208	155	142	82.3	45.5	37.2

**Ampere Table**

Cut-off V	(Ampere/Battery)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	265	201	174	130	92.0	76.3	52.0	41.3	27.7	21.4	18.6	15.6	9.9	5.0	4.2
9.9V	262	200	173	129	89.5	76.0	51.0	41.0	27.2	21.2	18.3	15.6	9.9	5.0	4.2
10.2V	261	199	171	127	89.0	75.5	50.6	40.5	27.0	21.0	18.0	15.5	9.8	5.0	4.2
10.5V	238	188	163	125	88.0	75.0	50.0	40.0	27.0	21.0	18.0	15.5	9.8	5.0	4.2
10.8V	226	182	159	123	76.0	65.0	45.0	38.0	25.8	20.5	17.8	15.0	9.7	4.9	4.2

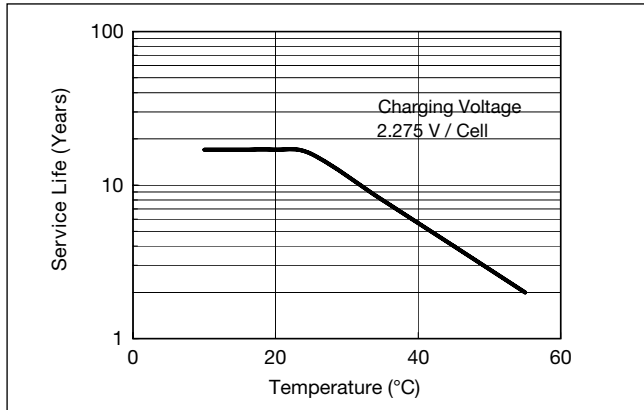
**Charging Method**

Trickle Use	Control voltage: 13.6 - 13.8 V; Initial current: 15 A or smaller
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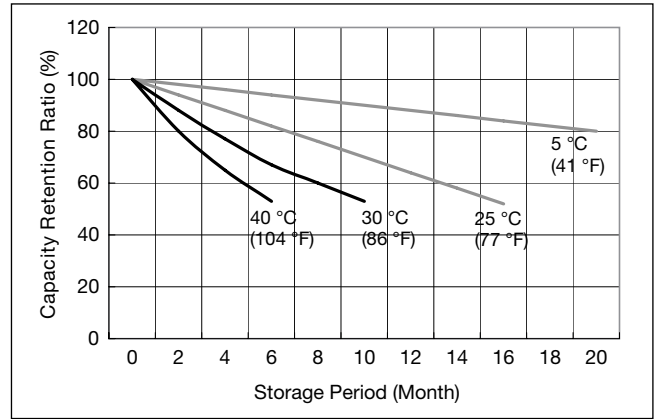
**Cut off voltage**

Discharge current	5 A - 20 A	20 A - 50 A	50 A - 100 A	100 A - 200 A	200 A - 300 A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

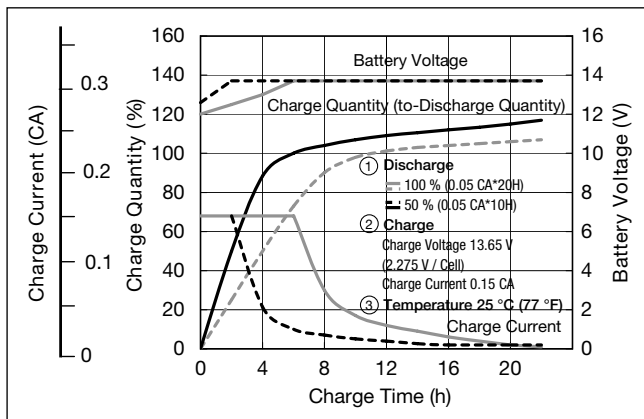
**Influence of Temperature on Trickle life**



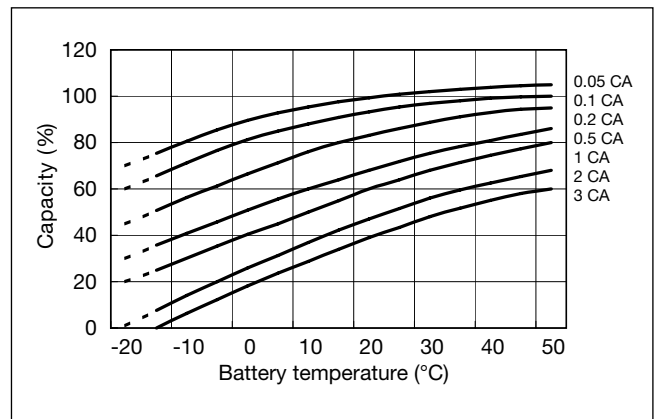
**Residual capacity vs storage period**



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



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



**Discharge characteristics**

