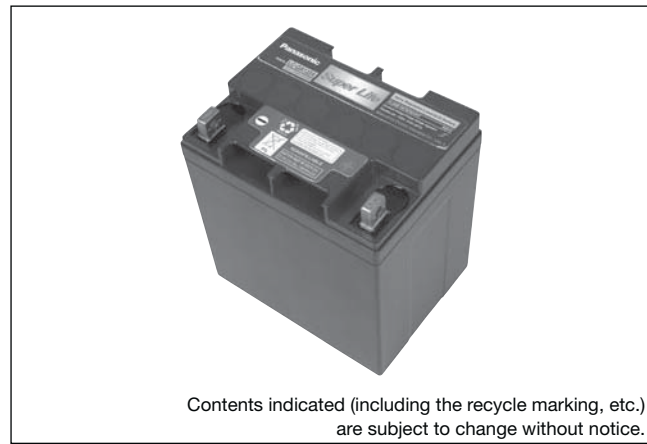
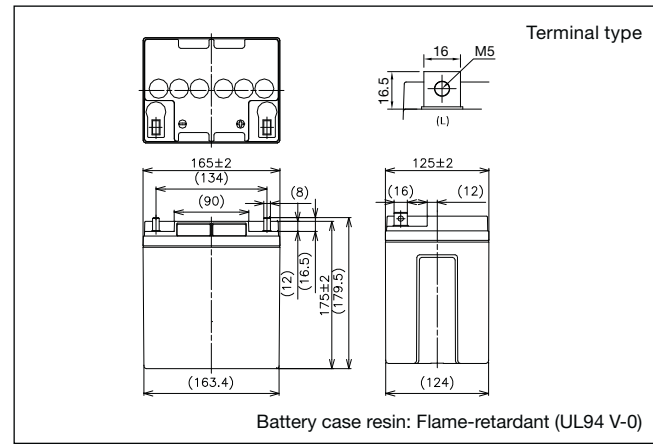


LC-QA1224AP



For standby power supplies.
Expected trickle design life: 15 years at 20°C according to Eurobat.

Dimensions (mm)



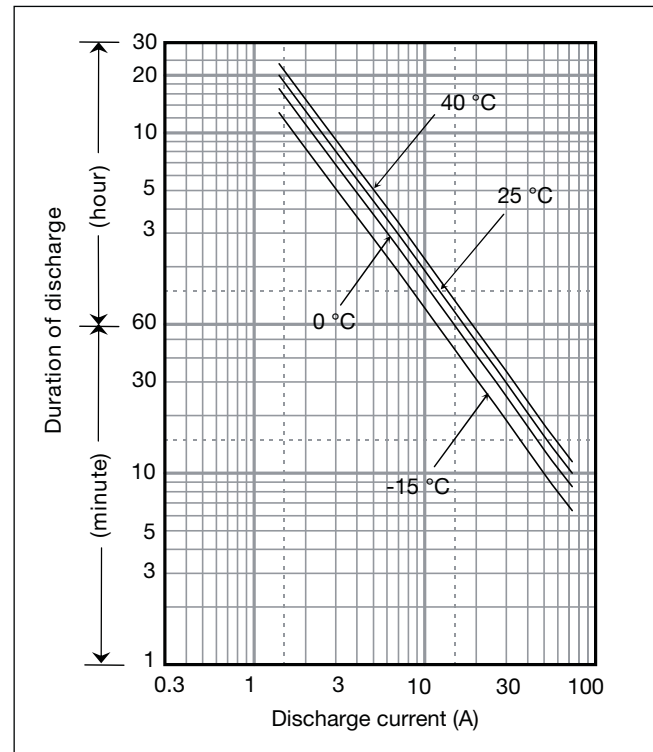
Specifications

Nominal voltage	12V	
Nominal capacity (20 hour rate)	24Ah	
Dimensions	Length	165mm
	Width	125mm
	Height	175mm
	Total Height	175mm
Approx. mass	10kg	
Terminal	M5 Bolt and Nut type	

Characteristics

Capacity (25°C)	20 hour rate 10 hour rate 5 hour rate 1 hour rate	24Ah 22Ah 19Ah 14Ah
Internal resistance	Fully charged battery (25°C)	8mΩ
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

Cut-off V	(Wattage/Battery)														
	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	773	605	521	401	280	215	167	113	79.9	65.8	51.8	46.8	27.0	13.5	11.5
9.9V	760	600	512	396	274	210	163	113	79.7	65.3	50.9	46.0	26.8	13.5	11.5
10.2V	746	591	503	390	268	205	159	111	79.3	64.7	50.1	45.3	26.4	13.4	11.5
10.5V	724	575	479	372	261	200	155	107	78.2	64.0	49.7	44.8	26.1	13.3	11.5
10.8V	701	558	456	344	256	196	152	104	77.1	63.2	49.5	44.3	25.9	13.3	11.5

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	72.6	51.2	42.8	30.5	22.4	17.4	11.3	9.90	6.98	5.51	4.50	3.83	2.48	1.35	1.13
9.9V	70.3	50.1	42.3	30.3	21.8	17.0	11.1	9.79	6.86	5.40	4.39	3.71	2.48	1.35	1.13
10.2V	67.7	49.2	41.3	30.0	21.4	16.7	11.1	9.68	6.75	5.40	4.28	3.71	2.48	1.35	1.13
10.5V	64.9	47.3	39.5	29.3	20.3	15.8	11.0	9.56	6.64	5.29	4.28	3.71	2.48	1.35	1.13
10.8V	63.8	46.4	38.8	28.2	18.0	13.8	10.3	9.00	6.41	5.18	4.28	3.60	2.48	1.35	1.13

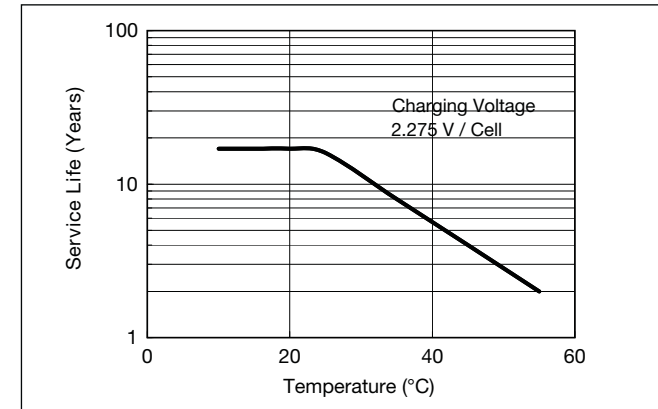
Charging Method

Trickle Use	Control voltage 13.6 - 13.8V; Initial current 3.6A or smaller
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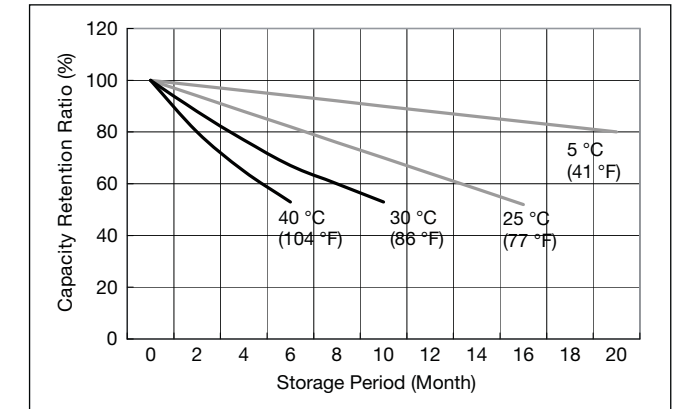
Cut off voltage

Discharge current	1.2A - 4.8A	4.8A - 12A	12A - 24A	24A - 48A	48A - 72A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

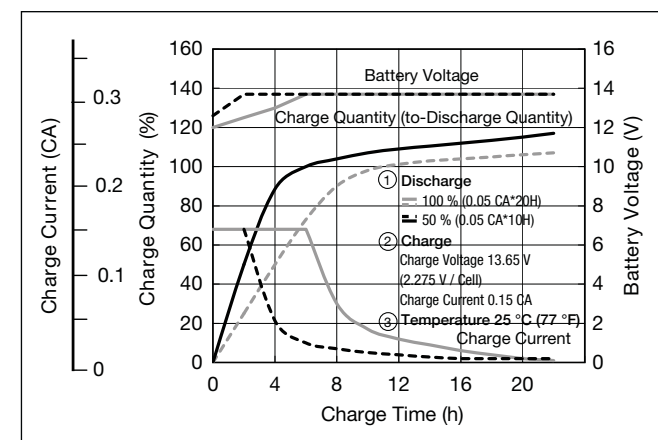
Influence of Temperature on Trickle life



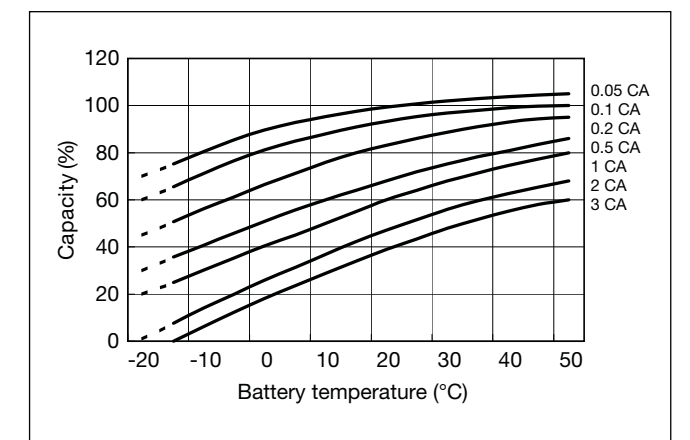
Residual capacity vs storage period



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



Discharge capacity by temperature and by discharge current



Discharge characteristics

