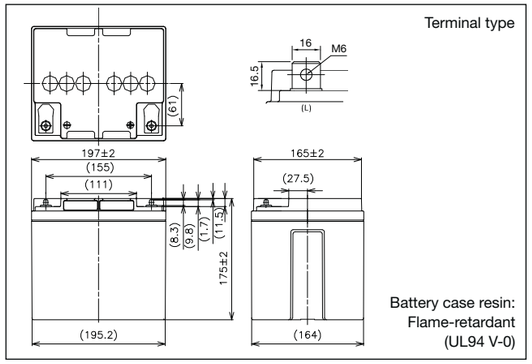
LC-QA1242P/AP

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

Contents indicated (including the recycle marking, etc.) are subject to change without notice.

Dimensions (mm)



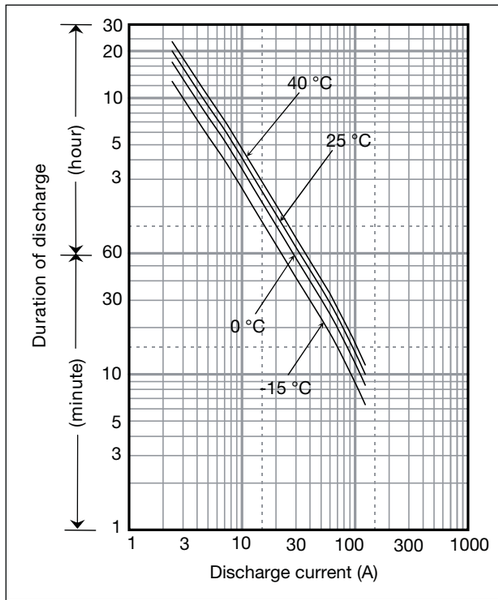
Specifications

Nominal voltage		12V
Nominal capacity (20 hour rate)		42Ah
Dimensions	Length	197mm
	Width	165mm
	Height	175mm
	Total Height	180mm
Approx. mass		16kg
Terminal		M6 Bolt and Nut type

Characteristics

Capacity (25°C)	20 hour rate 10 hour rate 5 hour rate 1 hour rate	42Ah 40Ah 37Ah 26Ah
Internal resistance	Fully charged battery (25°C)	8mΩ
Temperature dependency of capacity (20 hour rate)	40°C 25°C 0°C -15°C	102% 100% 85% 65%
Self discharge (25°C)	After 3 months After 6 months After 12 months	91% 82% 64%

Duration of discharge vs Discharge current



Watt Table

(Wattage/Battery)

Cut-off V	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	1202	1015	862	655	486	393	284	230	156	128	100	90.1	49.2	25.1	20.7
9.9V	1146	951	829	630	476	387	279	224	152	124	98.4	88.5	48.4	25.1	20.7
10.2V	1087	887	775	606	465	382	276	214	148	123	97.1	87.2	48.0	25.1	20.7
10.5V	1072	866	743	575	453	363	262	210	145	119	92.9	83.3	44.9	24.0	20.7
10.8V	1077	844	720	546	444	355	256	203	142	116	89.8	80.6	43.8	22.4	20.7

Ampere Table

(Ampere/Battery)

Cut-off V	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	123	94.5	81.0	60.1	39.3	29.8	23.0	17.8	12.5	10.4	8.44	7.43	4.50	2.36	1.97
9.9V	121	94.5	79.9	58.4	39.0	29.6	22.3	17.7	12.3	10.2	8.33	7.43	4.50	2.36	1.97
10.2V	119	92.3	78.8	57.3	38.9	29.4	20.7	17.4	12.0	10.1	8.33	7.31	4.50	2.36	1.97
10.5V	116	90.0	77.6	56.3	38.8	29.3	20.1	17.4	11.9	10.1	8.33	7.31	4.50	2.36	1.97
10.8V	107	86.6	75.4	55.1	37.4	28.1	19.1	16.4	11.5	9.9	8.21	7.09	4.50	2.36	1.95

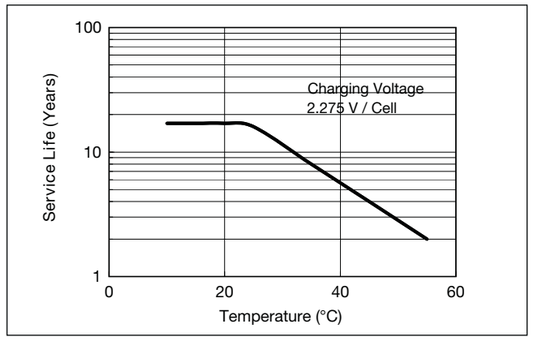
Charging Method

Trickle Use	Control voltage 13.6 - 13.8V; Initial current 6.3A or smaller

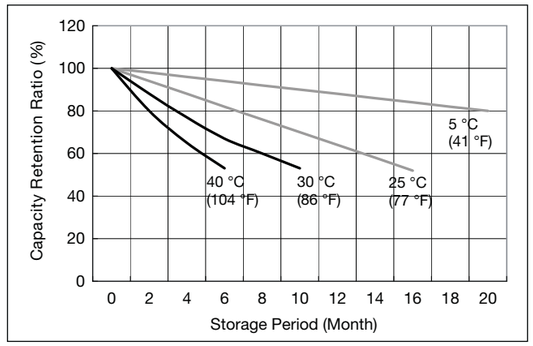
Cut off voltage

Discharge current	2.1A - 8.4A	8.4A - 21A	21A - 42A	42A - 84A	84A - 126A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

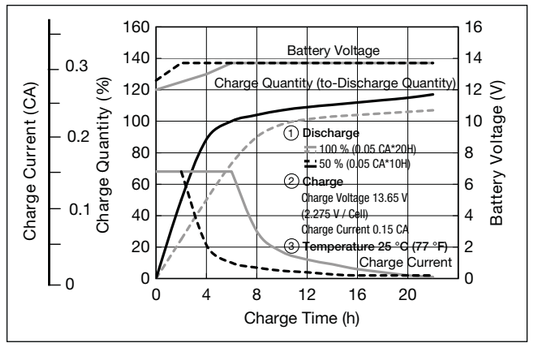
Influence of Temperature on Trickle life



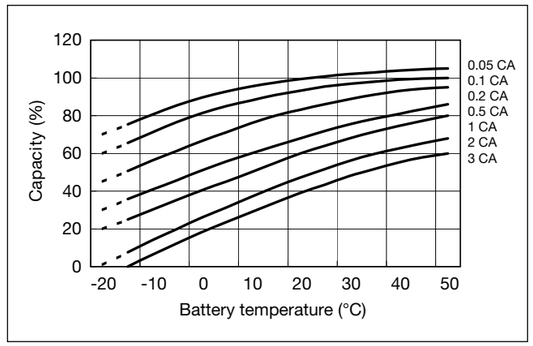
Residual capacity vs storage period



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



Discharge capacity by temperature and by discharge current



Discharge characteristics