LC-R123R4PG

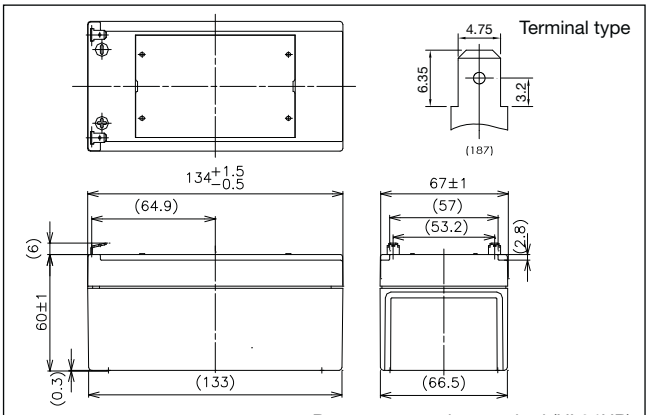
For main and standby power supplies. Expected trickle design life: 6 – 9 years at 20°C according to Eurobat.

VdS

G191053

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

Dimensions (mm)

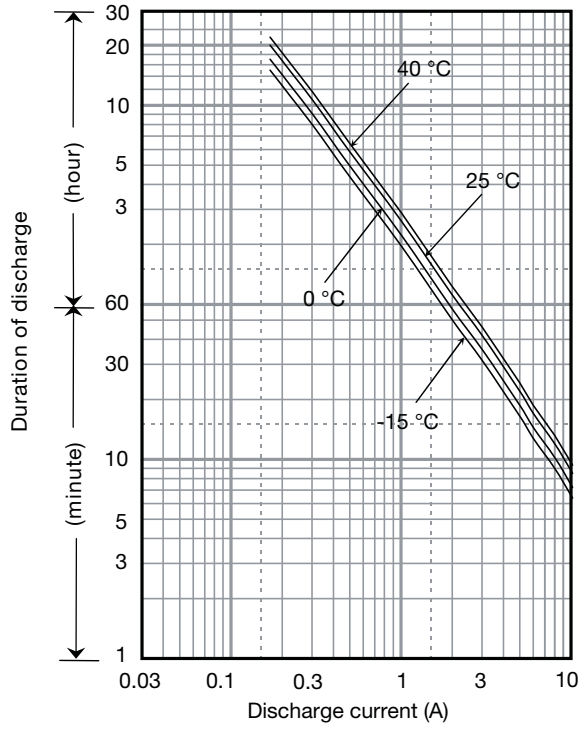


Battery case resin: standard (UL94HB)

Specifications

Nominal voltage		12V
Nominal capacity (20 hour rate)		3.4Ah
Dimensions	Length	134mm
	Width	67mm
	Height	60mm
	Total Height	66mm
Approx. mass		1.2kg
Terminal		Faston 187

Duration of discharge vs Discharge current



Characteristics

Capacity (25°C)	20 hour rate 10 hour rate 5 hour rate 1 hour rate	3.4Ah 3.0Ah 2.7Ah 2.1Ah
Internal resistance	Fully charged battery (25°C)	60mΩ
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%

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	204	161	105	80.4	67.4	50.3	35.5	28.4	19.6	15.0	11.3	8.63	7.13	5.80	3.81	2.06	1.72
9.9V	190	151	103	79.8	66.3	49.7	35.3	28.4	19.2	14.9	11.2	8.58	7.07	5.78	3.80	2.05	1.71
10.2V	175	142	100	78.2	65.2	49.2	34.9	27.8	18.8	14.5	11.1	8.52	7.01	5.73	3.76	2.05	1.71
10.5V	155	127	93	72.8	61.9	48.1	34.4	27.3	18.4	14.0	11.0	8.46	6.96	5.66	3.74	2.04	1.70
10.8V	131	112	83	67.9	60.3	46.4	33.8	26.7	17.8	13.4	10.7	8.46	6.79	5.66	3.68	1.98	1.70

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	18.4	14.4	9.40	6.99	5.81	4.30	3.02	2.41	1.66	1.26	0.949	0.722	0.595	0.484	0.318	0.171	0.143
9.9V	17.0	13.6	9.21	6.94	5.71	4.25	3.00	2.41	1.62	1.26	0.945	0.718	0.590	0.482	0.316	0.171	0.143
10.2V	15.7	12.7	8.97	6.80	5.62	4.20	2.97	2.36	1.59	1.22	0.935	0.713	0.586	0.478	0.313	0.170	0.142
10.5V	14.0	11.4	8.31	6.33	5.34	4.11	2.93	2.31	1.56	1.18	0.921	0.708	0.581	0.472	0.312	0.170	0.142
10.8V	11.8	10.1	7.41	5.90	5.19	3.97	2.88	2.27	1.51	1.13	0.897	0.708	0.567	0.472	0.307	0.165	0.142

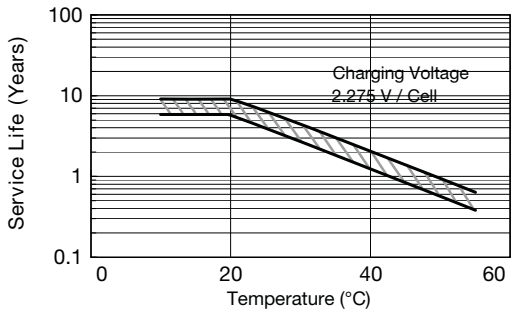
Charging Method

Cycle use	Control voltage: 14.5 - 14.9V; Initial current: 1.36A or smaller
Trickle use	Control voltage: 13.6 - 13.8V; Initial current: 0.51A or smaller

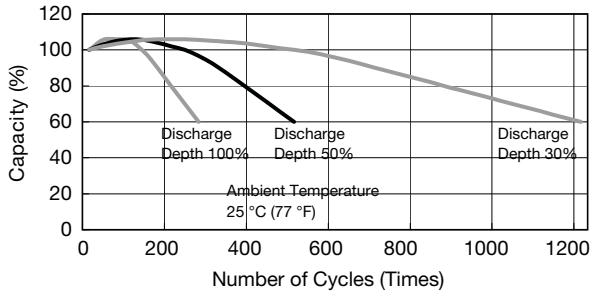
Cut off voltage

Discharge current	0.17A - 0.68A	0.68A - 1.7A	1.7A - 3.4A	3.4A - 6.8A	6.8A - 10.2A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

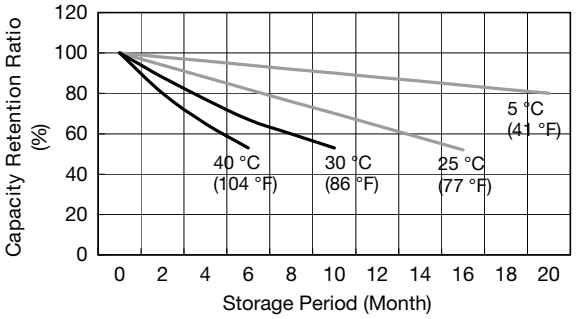
Influence of Temperature on Trickle life



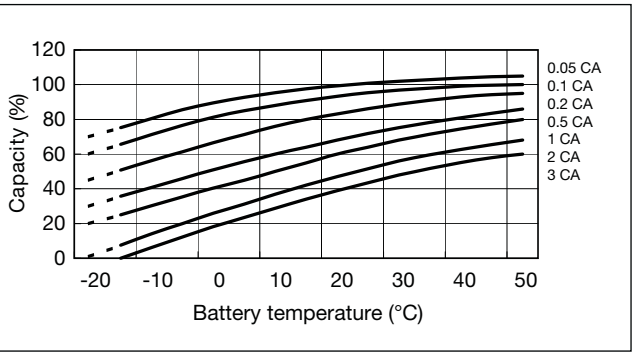
Cycle life vs Depth of discharge



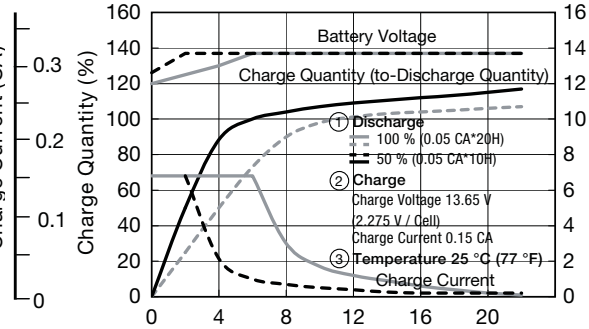
Residual capacity vs storage period



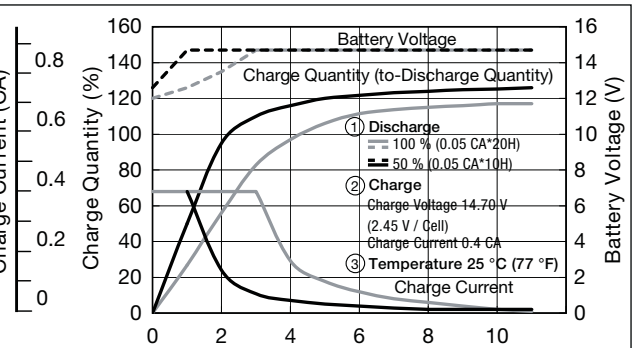
Discharge capacity by temperature and by discharge current



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



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



Discharge characteristics