LC-R123R4PG*[1]

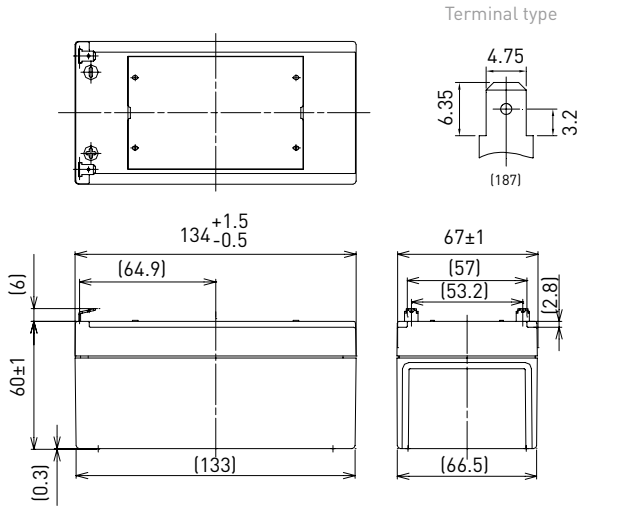
FOR MAIN AND STANDBY POWER SUPPLIES.
EXPECTED TRICKLE DESIGN LIFE: 6 – 9 YEARS
AT 20°C ACCORDING TO EUROBAT.

VdS

G191053

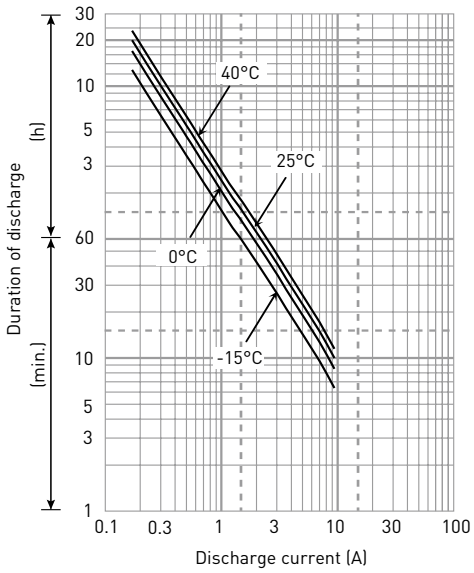
DIMENSIONS (MM)

Contents indicated (including the recycle marking, etc.) are subject to change without notice. Battery case resin: standard (UL94 HB)



Specifications		LC-R123R4PG*[1]
Nominal voltage (V)		12
Nominal capacity	20 hours rate (Ah)	3.4
Dimensions	Length (mm)	67
	Width (mm)	134
	Total height (mm)	66
Approx. mass (kg)		1.15
Terminal type		Faston 187
Capacity (25°C)	20 hours rate (Ah)	3.4
	10 hours rate (Ah)	3.1
	3 hours rate (Ah)	2.8
	1 hour rate (Ah)	2.3
Impedance (mΩ)	Fully charged battery (25°C)	50
Temperature dependency of capacity (%) – 20 hours rate	40°C	102
	25°C	100
	0°C	85
	-15°C	65
Remaining capacity (25°C)	After 3 months (%)	91
	After 6 months (%)	82
	After 12 months (%)	64

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

(Wattage/battery)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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
9.9V	190	151	103	79.8	66.3	49.7	35.3	28.1	19.2	14.9	11.2	8.58	7.07	5.78	3.80	2.05
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
10.5V	155	127	93.1	72.8	61.9	48.1	34.4	27.3	18.4	14.0	11.0	8.49	6.96	5.66	3.74	2.04
10.8V	131	112	83.0	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

AMPERE TABLE (25°C)

(Ampere/battery)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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
9.9V	17.0	13.6	9.21	6.94	5.71	4.25	3.00	2.39	1.62	1.24	0.945	0.718	0.590	0.482	0.316	0.171
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
10.5V	14.0	11.4	8.31	6.33	5.34	4.11	2.93	2.31	1.56	1.18	0.921	0.710	0.581	0.475	0.312	0.170
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

All mentioned values are average values

*[1] This battery is also available with a flame-retardant battery case resin (UL94 V-0): LC-V123R4PG.

LC-R123R4PG*[1]

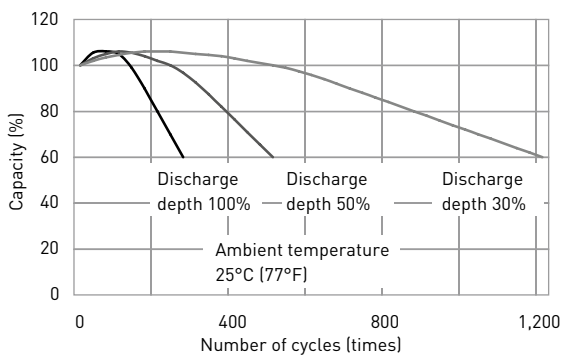
CHARGING METHOD (25°C)

Cycle use	Control voltage: 14.5V - 14.9V Initial current: 1.36A or smaller

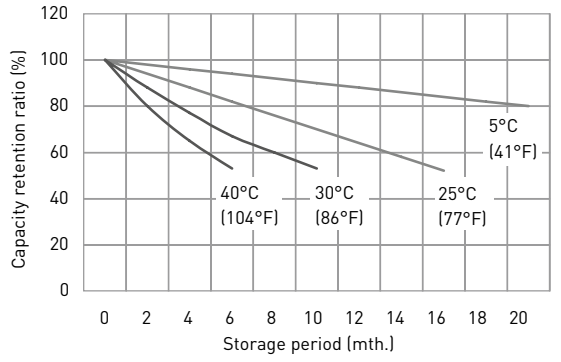
CUT-OFF VOLTAGE

Discharge current	0.170A - 0.680A	0.680A - 1.70A	1.70A - 3.40A	3.40A - 6.80A	6.80A - 10.2A
Cut-off voltage	10.5V	10.2V	9.9V	9.3V	8.7V

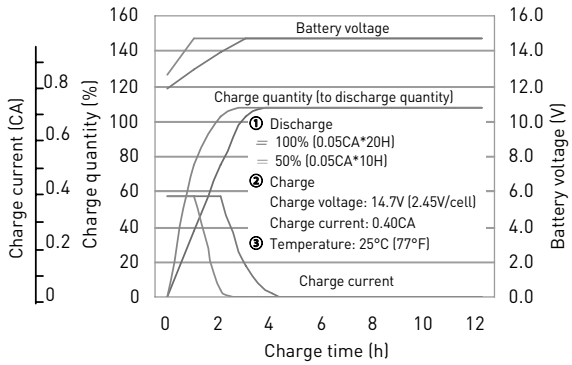
CYCLE LIFE VS. DEPTH OF DISCHARGE (ACC. IEC 61056)



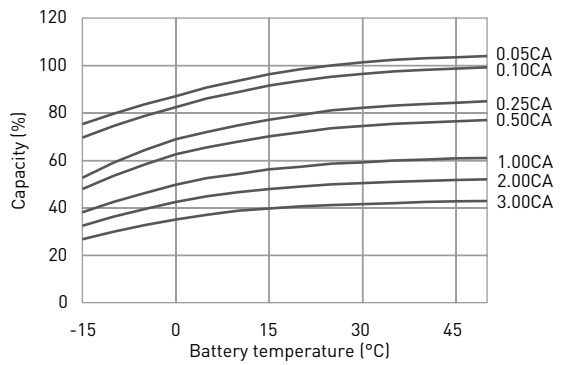
RESIDUAL CAPACITY TEST RESULT



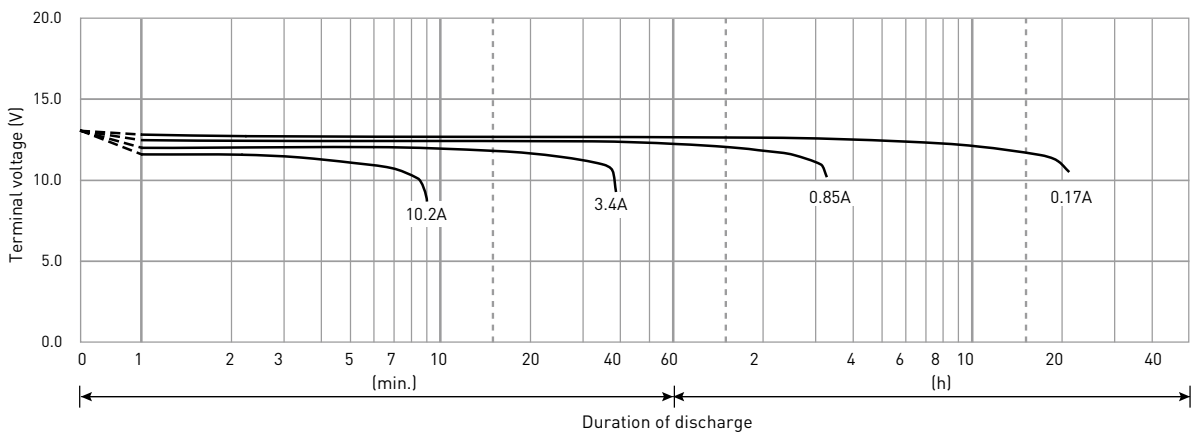
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR CYCLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



*[1] This battery is also available with a flame-retardant battery case resin (UL94 V-0): LC-V123R4PG.

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