

LC-R121R3PG

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

VdS

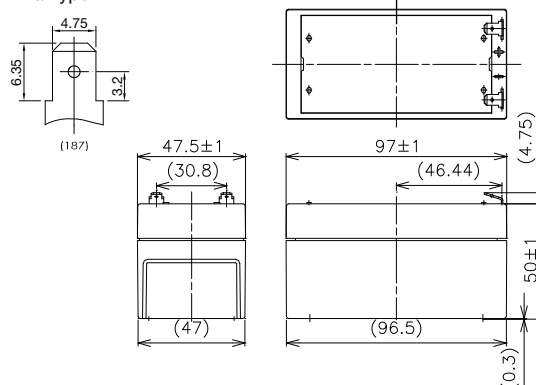
G196049



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

Dimensions (mm)

Terminal type



Battery case resin: standard (UL94HB)

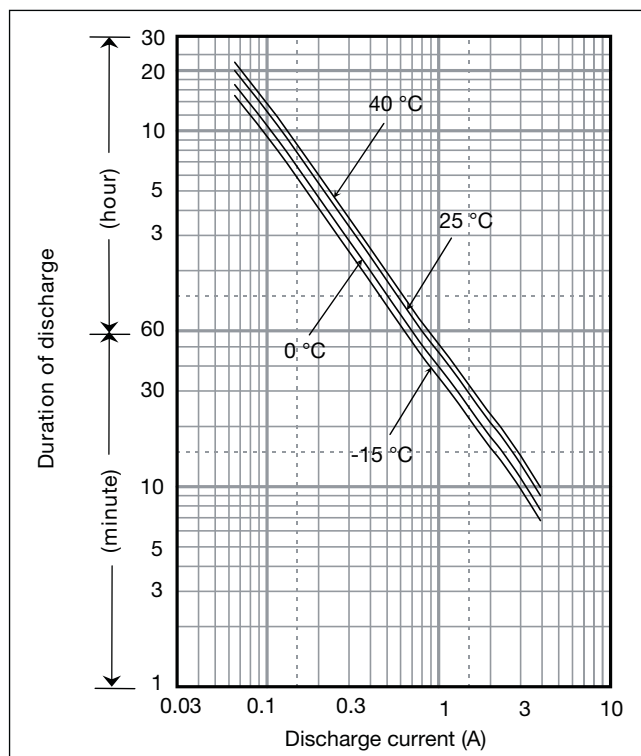
Specifications

Nominal voltage		12V
Nominal capacity (20 hour rate)		1.3Ah
Dimensions	Length	97mm
	Width	47.5mm
	Height	50mm
	Total Height	55mm
Approx. mass		0.59kg
Terminal		Faston 187

Characteristics

Capacity (25°C)	20 hour rate 10 hour rate 5 hour rate 1 hour rate	1.3Ah 1.2Ah 1.05Ah 0.85Ah
Internal resistance	Fully charged battery (25°C)	90mΩ
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

(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	78.1	61.6	40.2	30.7	25.8	19.2	13.6	10.8	7.49	5.73	4.32	3.30	2.73	2.22	1.46	0.787	0.657
9.9V	72.5	57.8	39.4	30.5	25.3	19.0	13.5	10.8	7.34	5.68	4.30	3.28	2.70	2.21	1.45	0.784	0.654
10.2V	66.9	54.2	38.4	29.9	24.9	18.8	13.4	10.6	7.19	5.54	4.25	3.26	2.68	2.19	1.44	0.782	0.652
10.5V	59.4	48.5	35.6	27.8	23.7	18.4	13.1	10.4	7.04	5.34	4.19	3.24	2.66	2.16	1.43	0.780	0.650
10.8V	50.2	42.9	31.7	26.0	23.0	17.7	12.9	10.2	6.82	5.13	4.08	3.24	2.60	2.16	1.41	0.758	0.650

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	7.02	5.53	3.59	2.67	2.22	1.64	1.16	0.921	0.634	0.484	0.363	0.276	0.228	0.185	0.122	0.0655	0.0655
9.9V	6.52	5.18	3.52	2.65	2.18	1.63	1.15	0.921	0.621	0.480	0.361	0.274	0.226	0.184	0.121	0.0654	0.0545
10.2V	6.01	4.86	3.43	2.60	2.15	1.61	1.14	0.903	0.609	0.468	0.358	0.273	0.224	0.183	0.120	0.0652	0.0543
10.5V	5.34	4.35	3.18	2.42	2.04	1.57	1.12	0.885	0.596	0.451	0.352	0.271	0.222	0.181	0.119	0.0650	0.0542
10.8V	4.51	3.85	2.83	2.26	1.99	1.52	1.10	0.867	0.578	0.433	0.343	0.271	0.217	0.181	0.117	0.0632	0.0542

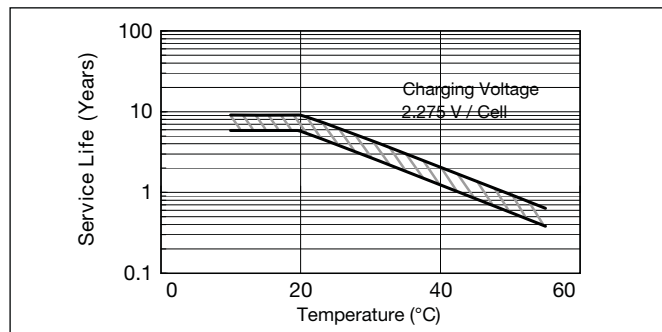
Charging Method

Cycle use	Control voltage: 14.5 - 14.9V; Initial current 0.52A or smaller
Trickle use	Control voltage: 13.6 - 13.8V; Initial current: 1.08A or smaller

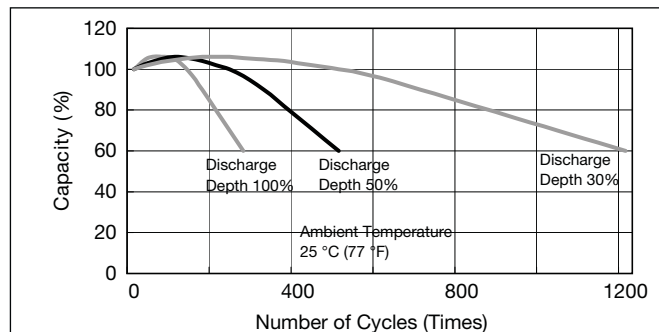
Cut off voltage

Discharge current	0.065 A - 0.26A	0.26A - 0.65A	0.65A - 1.3A	1.3A - 2.6A	2.6A - 3.9A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

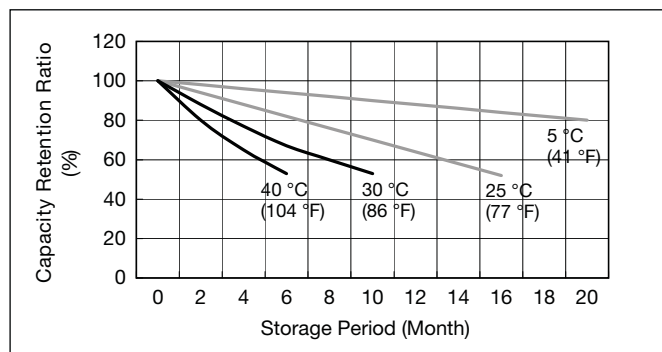
Influence of Temperature on Trickle life



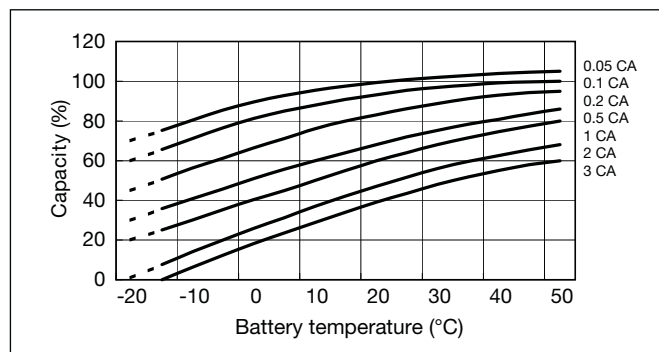
Cycle life vs Depth of discharge



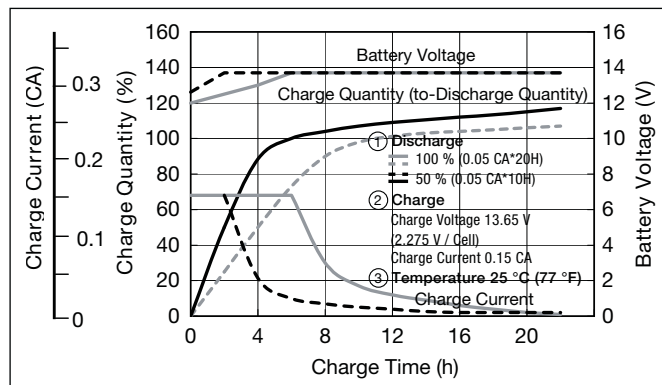
Residual capacity vs storage period



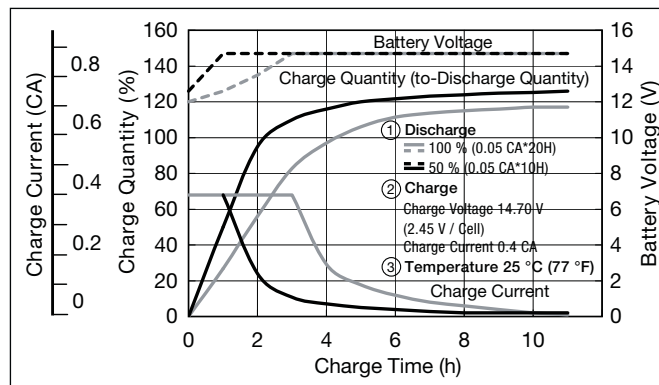
Discharge capacity by temperature and by discharge current



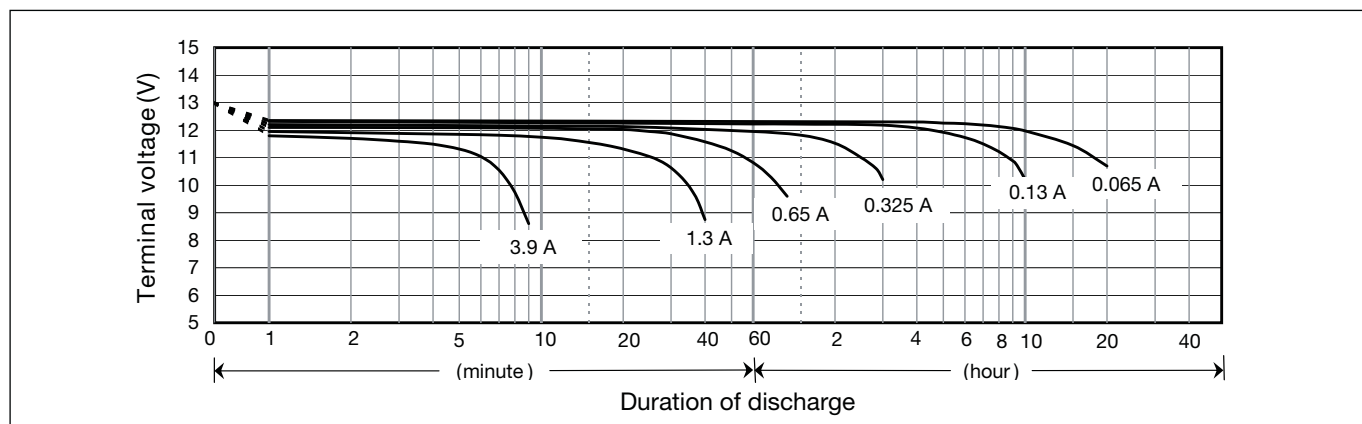
Constant-voltage and constant-current charge characteristics for Trickle use



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



Discharge characteristics





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