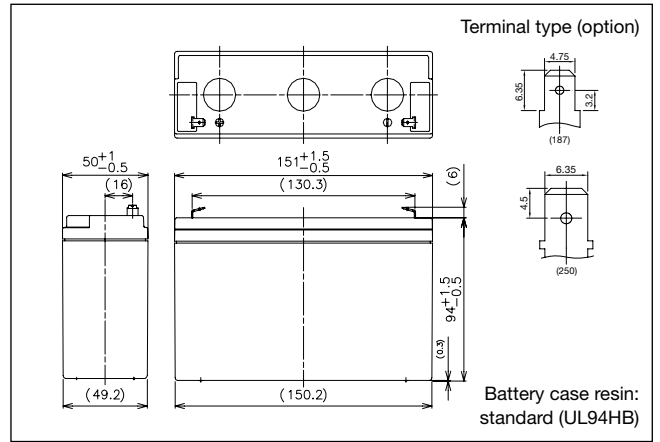


LC-R0612P

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



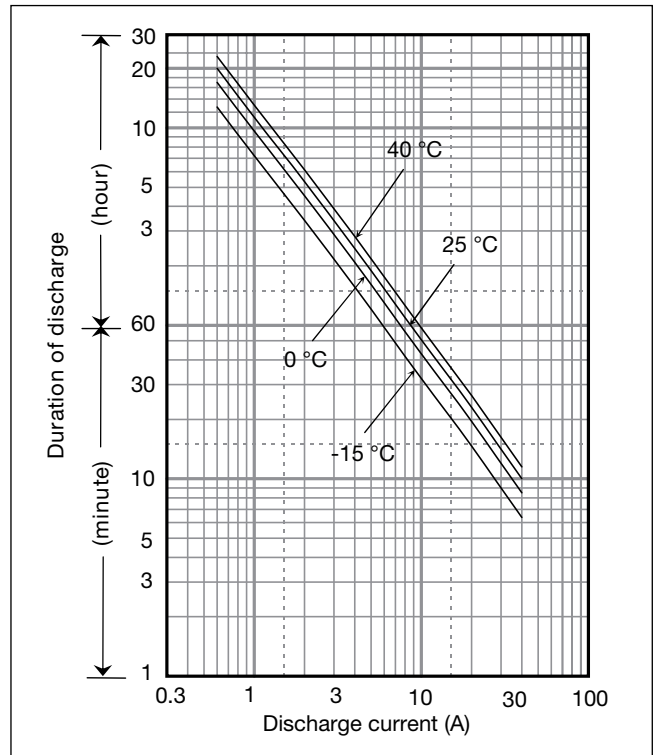
Dimensions (mm)



Specifications

Nominal voltage	6 V	
Nominal capacity (20 hour rate)	12 Ah	
Dimensions	Length	151 mm
	Width	50 mm
	Height	94 mm
	Total Height	100 mm
Approx. mass	2.00 kg	
Terminal	Faston 187 or Faston 250 with hole	

Duration of discharge vs Discharge current



Characteristics

Capacity (25 °C)	20 hour rate	12.0 Ah
	10 hour rate	11.3 Ah
	5 hour rate	10.4 Ah
	1 hour rate	8.1 Ah
Internal resistance	Fully charged battery (25 °C)	15 mΩ
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 %

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
4.8V	340	279	192	149	124	91.3	68.7	52.4	35.1	27.2	19.0	14.4	12.0	10.9	6.66	3.61	3.01
4.95V	325	269	186	144	121	88.3	67.5	51.8	35.0	27.1	18.9	14.4	12.0	10.9	6.66	3.61	3.01
5.1V	304	253	181	141	118	88.3	66.9	51.2	34.5	26.9	18.7	14.4	12.0	10.8	6.60	3.61	3.01
5.25V	278	237	171	136	115	86.0	66.3	50.1	34.2	26.6	18.4	14.3	12.0	10.8	6.60	3.60	3.00
5.4V	247	217	161	131	113	83.1	61.6	48.9	33.1	26.0	18.1	14.2	11.9	10.7	6.54	3.59	2.99

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
4.8V	61.1	50.1	34.3	25.9	21.3	15.6	11.7	8.90	5.95	4.60	3.20	2.41	2.01	1.81	1.11	0.602	0.502
4.95V	58.4	48.2	33.3	25.0	20.8	15.1	11.5	8.80	5.92	4.58	3.18	2.41	2.01	1.81	1.11	0.602	0.502
5.1V	54.6	45.4	32.4	24.5	20.3	15.1	11.4	8.70	5.85	4.55	3.15	2.41	2.00	1.80	1.10	0.601	0.501
5.25V	50.0	42.6	30.6	23.6	19.9	14.7	11.3	8.50	5.80	4.50	3.10	2.40	2.00	1.80	1.10	0.600	0.500
5.4V	44.5	38.9	28.7	22.7	19.4	14.2	10.5	8.30	5.60	4.40	3.05	2.38	1.99	1.79	1.09	0.598	0.498

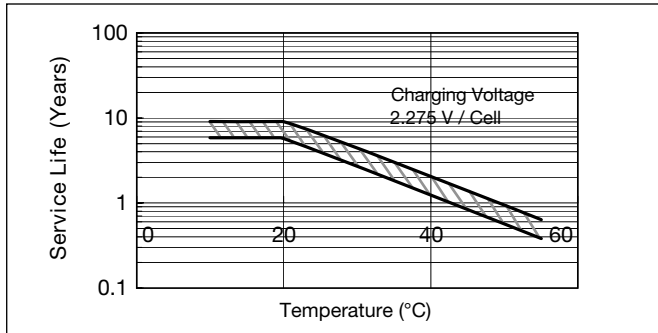
Charging Method

Cycle use	Control voltage: 7.25 - 7.45 V; Initial current: 4.8 A or smaller
Trickle use	Control voltage: 6.8 - 6.9 V; Initial current: 1.8 A or smaller

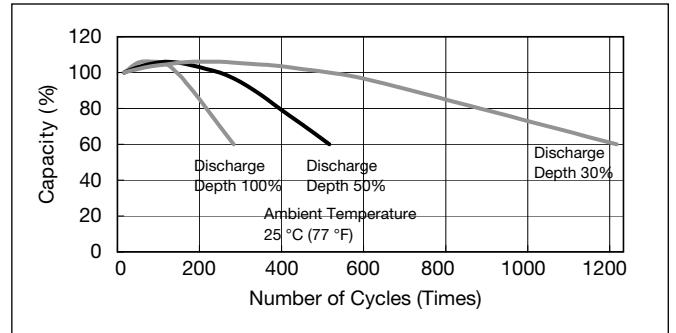
Cut off voltage

Discharge current	0.6 A - 2.4 A	2.4 A - 6 A	6 A - 12 A	12 A - 24 A	24 A - 36 A
Cut off voltage (V)	5.25	5.1	4.95	5.65	4.35

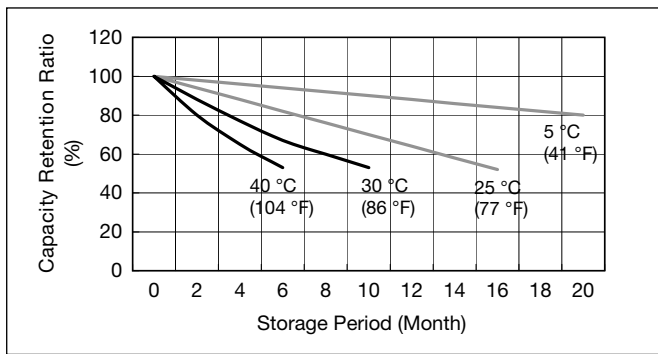
Influence of Temperature on Trickle life



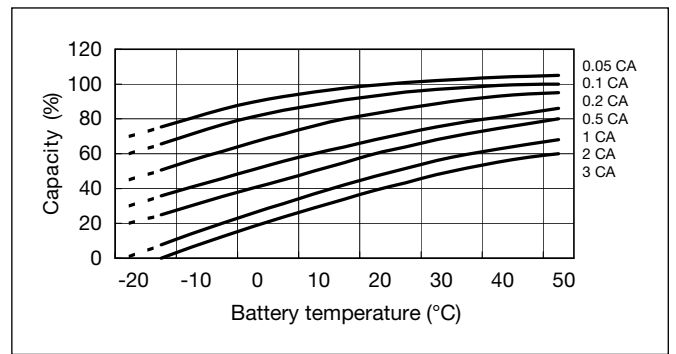
Cycle life vs Depth of discharge



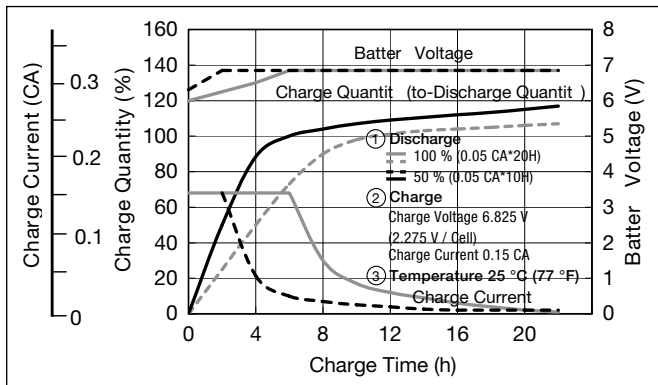
Residual capacity vs storage period



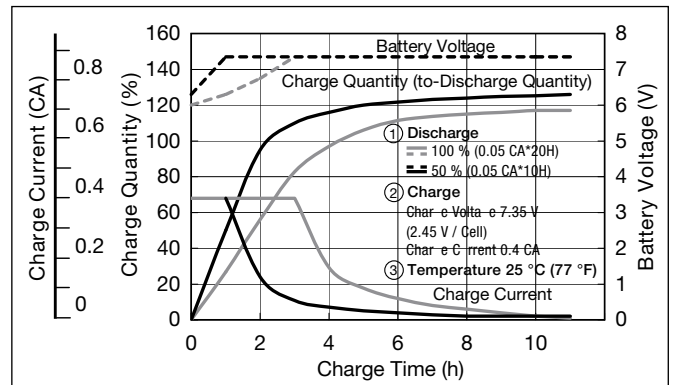
Discharge capacity by temperature and by discharge current



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



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



Discharge characteristics

