

LG50-12N (GEL)



Nominal Capacity 20°C (68°F)

Nominal Voltage 12V

Nominal Capacity 20°C (68°F)

20 hour rate (2.5A to 10.50V) 50Ah
 5 hour rate (8.5A to 10.20V) 42.5Ah
 1 hour rate (27.5A to 9.60V) 27.5Ah
 1C (50A to 9.60V) 26.67Ah

Cycle use

- Maximum charging current 15A
- Charging Voltage 13.8 to 14.4V
- Coefficiente -5.0mV/°C/cell

Standby use

- Float Charging Voltage 13.5 to 13.8V
- Coefficiente -3.0mV/°C/cell

Operating Temperature Range

- Charge -15°C (5°F) to 40°C (104°F)
- Discharge -15°C (5°F) to 50°C (122°F)
- Storage -15°C (5°F) to 40°C (104°F)

Terminal

F8

Design Life

- EUROBAT (20 C°) : 3-5 years standard commercial

Charge Retention (shelf life) at 20°C (68°F)

- 1 month 97%
- 3 month 92%
- 6 month 85%

Maximum discharge current for

5 seconds: 600A

Internal resistance (at 1KHz)

- Approx: 6 Oms

DATOS DE RENDIMIENTO

Intensidades de descarga en vatios para distintos voltajes finales a 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	216	259	190	311	315	320	325
10	min	154	183	200	210	213	217	221
15	min	114	131	144	150	153	155	157
30	min	70.2	80.9	87.5	90.3	91.4	92.6	93.9
60	min	50.4	53.1	54.7	55.9	56.4	57	57.5
120	min	27.7	30.4	31.7	32.8	33.1	33.6	34
180	min	20	21.8	22.9	23.7	24	24.3	24.6
240	min	16.6	17.8	18.4	19.1	19.2	19.6	19.9
300	min	15.6	16.2	16.7	17	17.2	17.3	17.5
600	min	8.44	8.92	9.20	9.38	9.42	9.49	9.57
1200	min	4.49	4.77	4.95	5.06	5.10	5.15	5.19

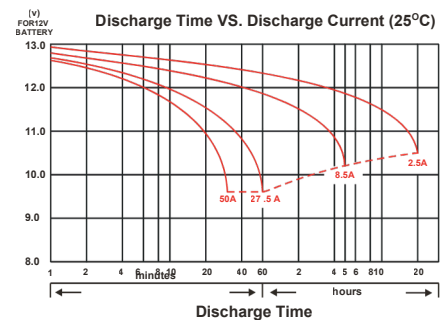
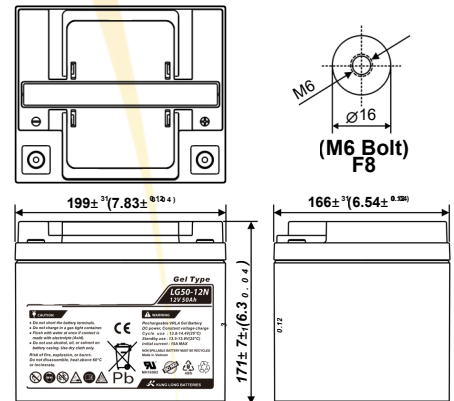
Intensidades de descarga en amperios para distintos voltajes finales a 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	125	149	167	179	185	189	193
10	min	78.1	93.5	103	110	113	116	118
15	min	71.6	77.7	80.6	83.0	83.6	84.5	85.5
30	min	40.9	45.6	47.5	49.0	49.4	50.0	50.6
60	min	24.4	27.1	28.1	28.8	29.0	29.2	29.5
120	min	14.3	15.4	16.0	16.4	16.6	16.8	17.0
180	min	10.6	11.2	11.6	11.9	12.0	12.1	12.2
240	min	8.67	9.16	9.41	9.59	9.66	9.80	9.88
300	min	7.69	8.09	8.33	8.50	8.56	8.62	8.69
600	min	4.40	4.64	4.75	4.81	4.83	4.86	4.90
1200	min	2.32	2.44	2.50	2.55	2.57	2.59	2.61

Features

Description of torque value of hardware for the terminals:

- Recommended torque value
M6: 7 N-m (71 kgf-cm)
- Maximum allowable torque value
M6: 10 N-m (102 kgf-cm)

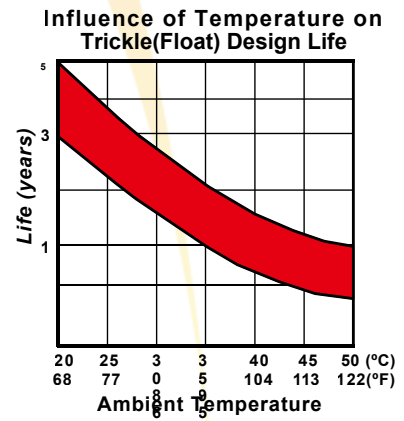
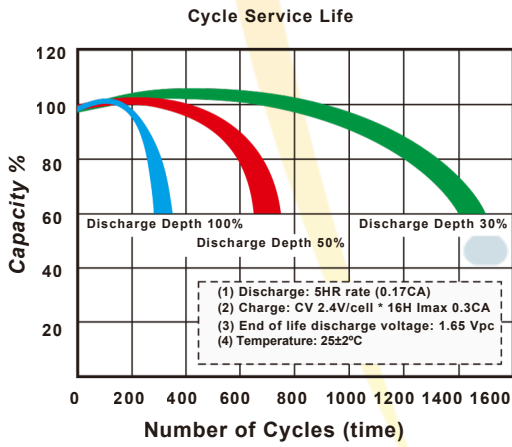
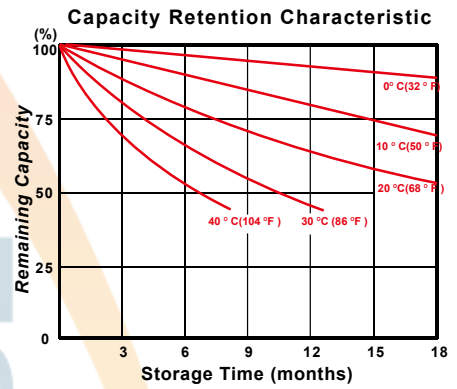
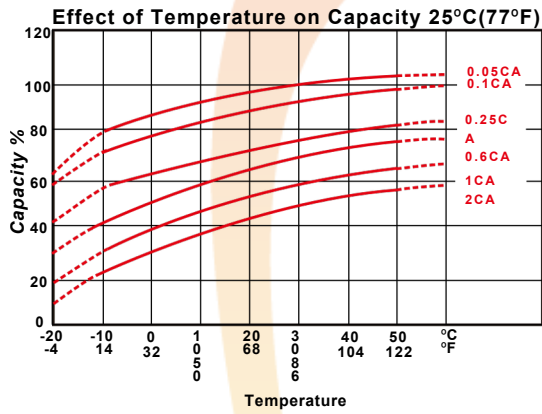


Dimensions and weight

Length (max) 199 mm
 Width (max) 166 mm
 Height: H1 (max) 171 mm
 Total height: H2 (max) 171 mm
 Filled weight (max) 15kg (33 Lbs)

Case material

- ABS UL94 HB
- Option: Flammability resistance of (UL94 V-0)



All data on the spec. sheet is an average value:

The tolerancerange : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)