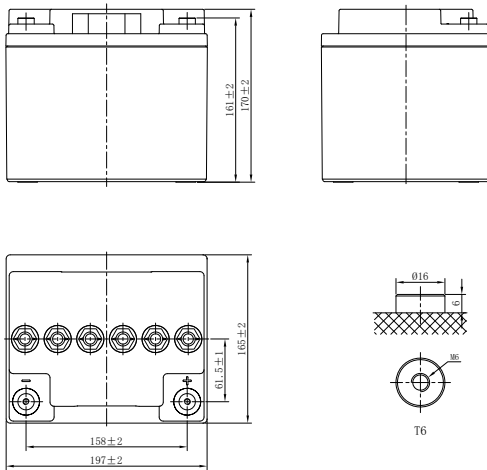


# LPG SERIES-GEL BATTERY

## LPG12-38 (12V38Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>20</sub> , 1.80V/cell	38Ah
Dimension	Length	197mm (7.76inches)
	Width	165mm (6.50inches)
	Container Height	170mm (6.69inches)
	Total Height	170mm (6.69inches)
Approx Weight	12.8kg (28.2lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	874A	
Internal Resistance (25°C)	Approx 13.3 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~60°C (-4~140°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤2.5% per month at 25°C (77°F). LPG series batteries may be stored up to 9 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Self Discharge		

### DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	46.1	39.9	31.4	28.4	20.8	16.5	12.8	10.2	8.08	6.56	5.73	4.99	4.05	3.43	1.77	
1.80V/cell	52.3	45.3	35.5	30.9	22.0	18.2	13.5	11.2	8.87	7.13	6.01	5.28	4.22	3.50	1.90	
1.75V/cell	56.7	49.0	38.3	31.6	22.8	20.4	14.8	12.0	9.22	7.35	6.20	5.45	4.29	3.61	1.91	
1.70V/cell	59.3	51.5	40.4	31.8	23.2	21.1	15.2	12.3	9.38	7.36	6.27	5.46	4.33	3.65	1.93	
1.67V/cell	62.4	53.6	41.8	32.7	23.6	21.5	15.5	12.5	9.51	7.48	6.37	5.54	4.36	3.69	1.95	
1.60V/cell	64.5	55.2	42.8	33.1	23.9	22.2	15.9	12.8	9.63	7.61	6.51	5.63	4.40	3.72	1.98	

Constant Power Discharge (Watts/cell) at 25°C (77°F)																
F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	86.7	75.6	59.7	54.3	39.9	32.0	24.8	19.9	15.8	12.9	11.3	9.85	8.00	6.79	3.52	
1.80V/cell	96.9	84.6	66.8	58.6	42.0	35.1	26.2	21.8	17.3	14.0	11.8	10.4	8.32	6.92	3.77	
1.75V/cell	103.5	90.3	71.3	59.4	43.3	39.1	28.5	23.2	17.9	14.3	12.1	10.7	8.44	7.11	3.79	
1.70V/cell	106.3	93.5	74.1	59.9	43.7	40.0	29.1	23.6	18.2	14.4	12.2	10.8	8.51	7.13	3.84	
1.67V/cell	110.5	96.4	76.2	60.5	44.3	40.7	29.6	24.0	18.4	14.5	12.4	10.9	8.56	7.16	3.87	
1.60V/cell	112.1	97.8	77.3	60.7	44.5	41.6	30.1	24.3	18.5	14.7	12.6	11.0	8.60	7.21	3.92	

# LPG SERIES-GEL BATTERY

## LPG12-38 (12V38Ah)



### APPLICATIONS

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

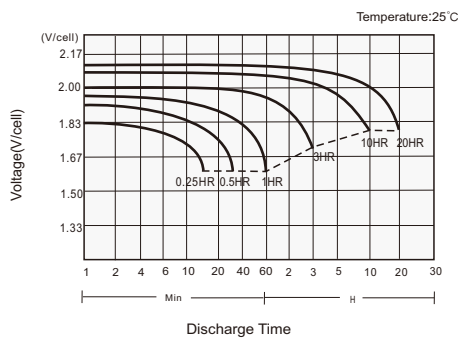
### GENERAL FEATURES

- 12 years design life (25°C)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life

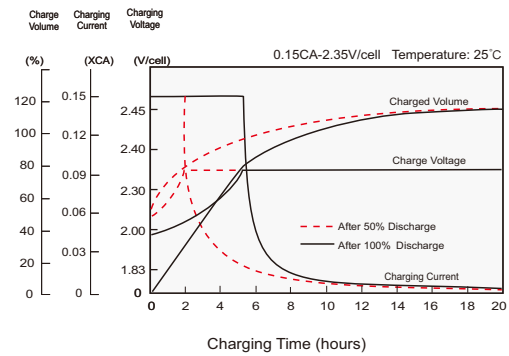
### STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

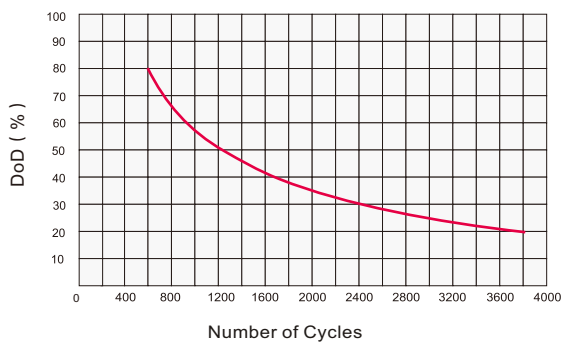
#### Discharge Characteristics



#### Charging Characteristics



#### Cycle Life in Relation to DoD



#### Self Discharge Characteristics

