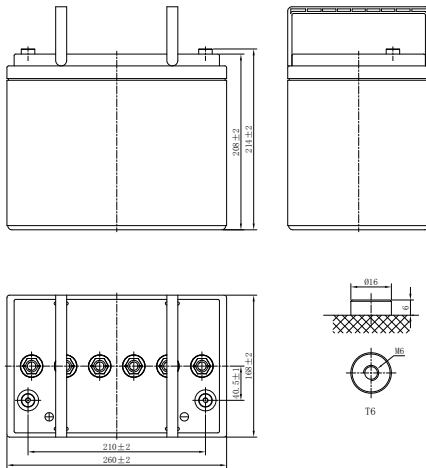


# LPG SERIES-GEL BATTERY

## LPG12-70H (12V70Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>20</sub> , 1.80V/cell	70Ah
Dimension	Length	260mm (10.2inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight	22.9kg (50.5lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1470A	
Internal Resistance (25°C)	Approx 9.4 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	92.1	79.9	62.8	50.4	40.1	34.6	26.3	21.3	16.2	13.0	10.9	9.45	7.65	6.37	3.56	
1.80V/cell	104.6	90.5	71.0	58.5	45.5	38.5	28.9	23.2	17.5	13.9	11.7	10.1	8.14	7.00	3.75	
1.75V/cell	113.4	98.0	76.7	61.2	47.2	40.1	30.1	24.1	18.1	14.3	12.0	10.3	8.29	7.02	3.79	
1.70V/cell	118.6	102.9	80.7	64.0	49.0	41.6	31.2	24.9	18.6	14.8	12.3	10.6	8.40	7.03	3.84	
1.67V/cell	124.7	107.1	83.5	65.8	49.9	42.4	31.8	25.4	18.9	15.0	12.5	10.7	8.47	7.09	3.87	
1.60V/cell	129.0	110.4	85.7	69.8	52.4	44.5	33.3	26.6	19.8	15.6	13.0	11.1	8.63	7.16	3.94	

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	173.3	151.2	119.5	96.2	77.2	66.9	51.1	41.3	31.7	25.3	21.3	18.6	15.1	12.6	7.06	
1.80V/cell	193.9	169.2	133.6	110.6	86.9	74.1	55.8	44.8	34.1	27.2	22.8	19.8	16.0	13.2	7.42	
1.75V/cell	206.9	180.5	142.6	114.6	89.5	76.6	57.7	46.3	35.0	27.9	23.3	20.2	16.3	13.6	7.49	
1.70V/cell	212.6	187.1	148.3	118.8	92.1	79.1	59.5	47.7	36.0	28.5	23.9	20.6	16.5	13.8	7.58	
1.67V/cell	221.0	192.9	152.4	121.3	93.4	80.4	60.5	48.5	36.4	28.9	24.2	20.9	16.6	13.9	7.63	
1.60V/cell	224.1	195.6	154.5	126.7	97.0	83.6	62.9	50.5	37.8	29.9	25.0	21.5	16.9	14.0	7.77	

# LPG SERIES-GEL BATTERY

## LPG12-70H (12V70Ah)



### APPLICATIONS

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

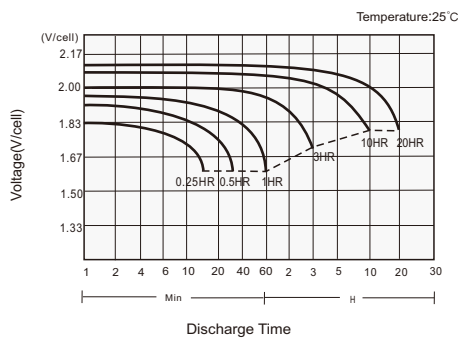
### GENERAL FEATURES

- 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

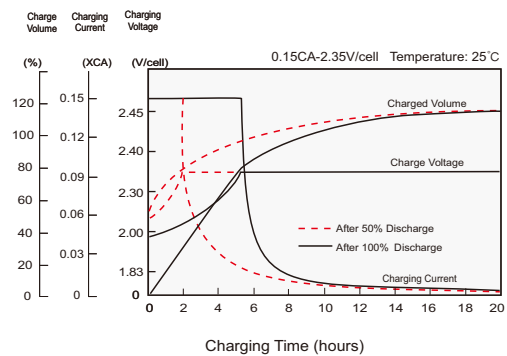
### STANDARDS

- 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

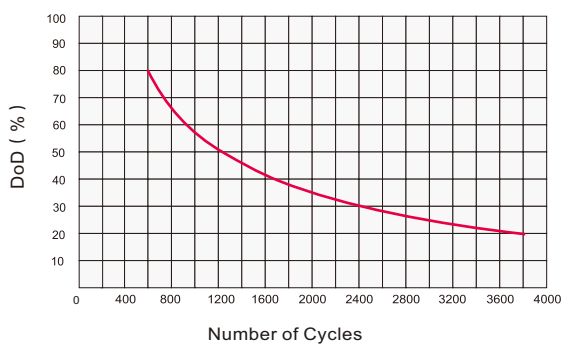
#### Discharge Characteristics



#### Charging Characteristics



#### Cycle Life in Relation to DoD



#### Self Discharge Characteristics

