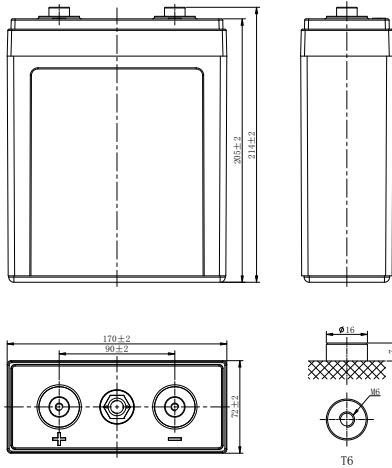


# LPG SERIES-GEL BATTERY

## LPG2-100 (2V100Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	100Ah
Dimension	Length	170mm (6.69inches)
	Width	72mm (2.83inches)
	Container Height	205mm (8.07inches)
	Total Height	214mm (8.43inches)
Approx Weight	6.00kg (13.2lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1300A	
Internal Resistance (25°C)	Approx 1 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	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	71.6	57.2	47.0	34.2	29.1	23.1	18.8	16.3	14.3	11.6	9.80	5.06
1.80V/cell	84.1	65.1	52.0	37.8	32.0	25.3	20.4	17.2	15.1	12.1	10.0	5.33
1.75V/cell	88.0	69.2	58.3	41.7	34.3	26.3	21.0	17.7	15.6	12.3	10.2	5.46
1.70V/cell	92.3	72.2	60.7	43.2	35.2	26.7	21.2	18.0	15.7	12.4	10.3	5.52
1.67V/cell	98.3	74.2	61.3	43.7	35.7	27.2	21.6	18.2	15.8	12.5	10.4	5.58
1.60V/cell	104.7	77.6	63.3	44.9	36.4	27.5	21.8	18.6	16.1	12.6	10.5	5.65
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	137.7	110.8	91.4	66.7	56.8	45.2	36.8	32.1	28.1	22.8	19.4	10.1
1.80V/cell	159.3	124.7	100.4	73.2	62.2	49.5	39.9	33.7	29.7	23.8	19.8	10.6
1.75V/cell	165.7	131.7	111.8	80.2	66.4	51.2	41.0	34.6	30.6	24.1	20.3	10.8
1.70V/cell	172.6	136.9	114.7	82.1	67.7	51.9	41.3	35.0	30.8	24.3	20.4	11.0
1.67V/cell	182.3	139.4	116.1	83.0	68.4	52.4	41.5	35.4	30.9	24.5	20.5	11.1
1.60V/cell	193.1	145.0	118.8	84.7	69.4	52.8	42.0	36.1	31.3	24.6	20.6	11.2

# LPG SERIES-GEL BATTERY

## LPG2-100 (2V100Ah)



### APPLICATIONS

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

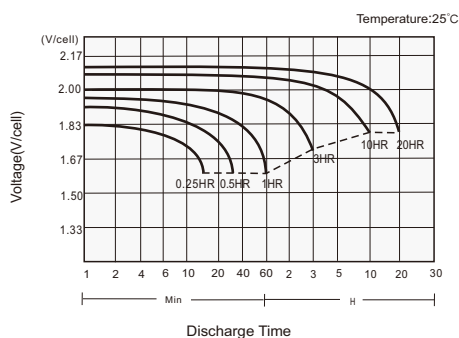
### GENERAL FEATURES

- 16 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

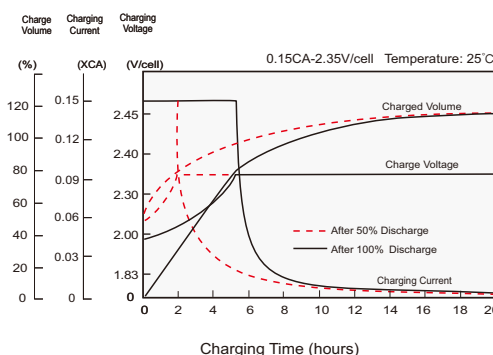
### STANDARDS

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

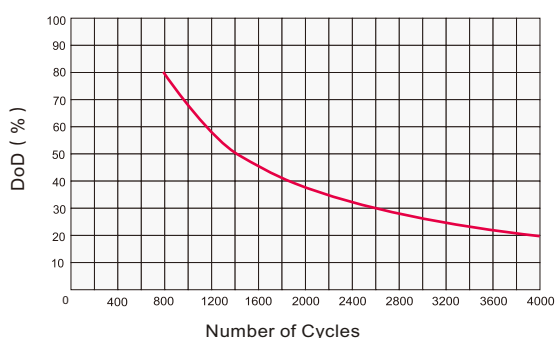
#### Discharge Characteristics



#### Charging Characteristics



#### Cycle Life in Relation to DoD



#### Self Discharge Characteristics

