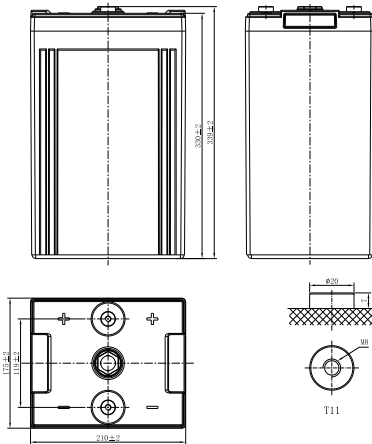


# LPG SERIES-GEL BATTERY

## LPG2-400 (2V400Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	400Ah
Dimension	Length	210mm (8.27inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight	27.0kg (59.5lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4400A	
Internal Resistance (25°C)	Approx 0.6 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	225.2	198.9	184.0	135.7	116.0	92.5	74.4	63.6	54.5	44.5	37.5	20.1
1.80V/cell	251.8	220.1	201.3	148.1	126.2	100.1	80.2	68.5	58.5	47.6	40.0	21.2
1.75V/cell	262.0	228.3	208.1	152.9	130.1	102.8	82.2	70.1	59.7	48.5	40.6	21.5
1.70V/cell	272.0	236.7	215.3	158.0	134.2	105.8	84.3	71.7	61.0	49.4	41.3	21.7
1.67V/cell	278.1	241.6	219.1	160.7	136.4	107.4	85.5	72.6	61.7	49.9	41.6	21.9
1.60V/cell	292.5	253.4	228.8	167.6	142.1	111.4	88.3	74.8	63.5	51.1	42.5	22.3
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	436.6	386.6	358.9	264.9	226.7	181.4	146.3	125.3	107.5	87.9	74.2	40.0
1.80V/cell	484.7	425.0	390.5	287.7	245.4	195.5	157.1	134.5	115.0	94.0	79.0	42.1
1.75V/cell	500.5	437.6	401.1	295.1	251.6	199.9	160.4	137.2	117.1	95.5	80.1	42.6
1.70V/cell	515.4	450.6	412.2	303.2	258.2	204.8	163.9	139.8	119.3	97.0	81.3	43.1
1.67V/cell	524.4	457.8	418.1	307.3	261.6	207.3	165.8	141.3	120.5	97.8	81.9	43.4
1.60V/cell	545.6	475.5	433.1	318.1	270.5	213.7	170.4	144.9	123.4	99.9	83.4	44.2

# LPG SERIES-GEL BATTERY

## LPG2-400 (2V400Ah)



### APPLICATIONS

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

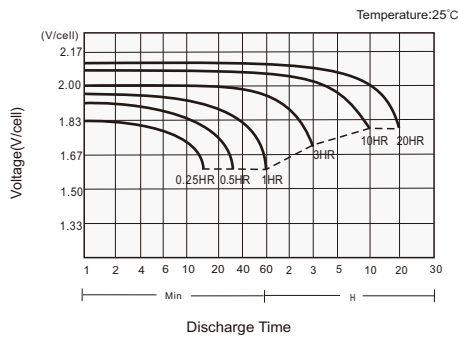
### GENERAL FEATURES

- 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

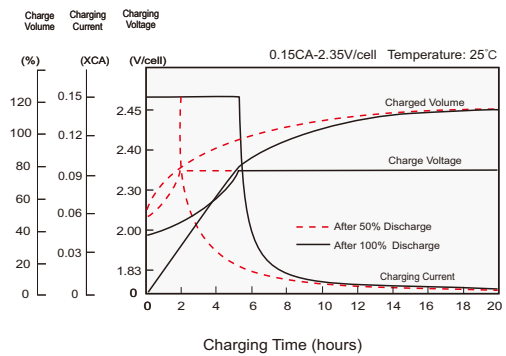
### STANDARDS

- 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

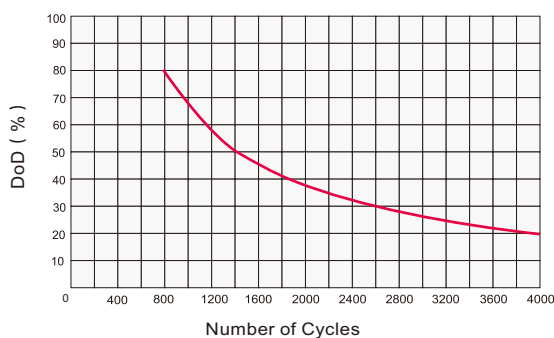
#### Discharge Characteristics



#### Charging Characteristics



#### Cycle Life in Relation to DoD



#### Self Discharge Characteristics

