

# LPG SERIES-GEL Battery

## LPG2-400 (2V400AH)

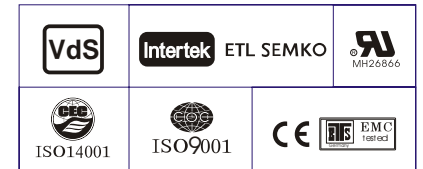
### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	400.0AH	
Dimension	Length	210±3mm (8.27 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	339±3mm (13.35 inches)
Approx Weight	Approx 25.5 kg (56.23lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	435.4 AH/21.77A	(20hr, 1.80V/cell, 25°C/77°F)
	400.0 AH/40.00A	(10hr, 1.80V/cell, 25°C/77°F)
	351.0 AH/70.2A	(5hr, 1.75V/cell, 25°C/77°F)
	316.8 AH/105.6A	(3hr, 1.75V/cell, 25°C/77°F)
	239.5 AH/239.5A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	2800A (5s)	
Internal Resistance	Approx 0.65mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	-10~45°C (14~113°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 100A. Voltage	
	2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LPG series batteries may be stored for 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.	



### Applications

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



### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	355.1	279.2	212.8	184.9	118.0	93.4	74.5	64.3	55.5	49.2	44.3	40.5	38.3	20.90
1.80V/cell	407.8	311.8	235.1	204.1	127.8	100.1	79.0	67.6	58.3	51.4	46.5	42.6	40.0	21.77
1.75V/cell	458.0	342.9	253.6	218.0	135.3	105.6	82.8	70.2	60.3	53.3	48.0	43.9	40.8	22.20
1.70V/cell	493.5	367.3	269.4	231.0	143.5	110.0	85.4	72.3	62.4	55.0	49.4	45.0	41.8	22.51
1.67V/cell	513.1	382.0	279.2	239.5	147.1	113.6	87.6	73.9	63.5	55.9	50.1	45.7	42.3	22.71
1.60V/cell	555.9	408.2	299.9	254.3	153.1	118.1	90.8	76.2	65.0	57.0	51.0	46.6	43.1	23.04

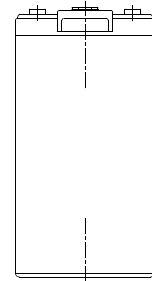
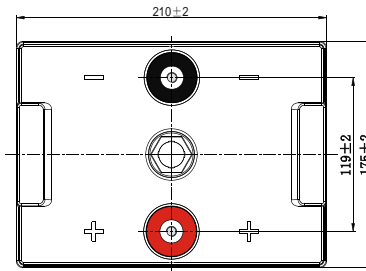
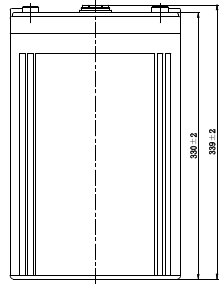
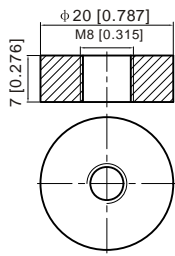
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	674.3	533.8	409.4	357.2	228.7	181.5	145.4	126.0	109.1	96.9	87.6	80.1	75.8	41.4
1.80V/cell	764.1	590.6	448.1	392.2	246.4	193.9	153.5	131.9	114.2	101.0	91.5	84.1	79.1	43.1
1.75V/cell	848.6	642.2	479.1	416.7	260.3	204.2	160.4	136.4	117.8	104.4	94.2	86.5	80.5	43.9
1.70V/cell	904.5	683.3	507.0	440.1	274.7	212.0	165.1	140.2	121.7	107.7	96.9	88.6	82.4	44.4
1.67V/cell	929.7	701.0	520.7	452.7	280.3	217.9	168.7	142.7	123.3	108.9	98.0	89.6	83.2	44.8
1.60V/cell	996.2	744.1	556.2	478.1	290.2	225.5	174.5	146.7	126.0	110.9	99.6	91.4	84.7	45.4

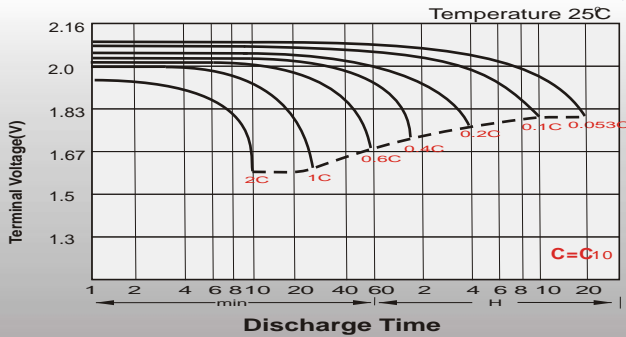
# Dimensions

## T11 Terminal

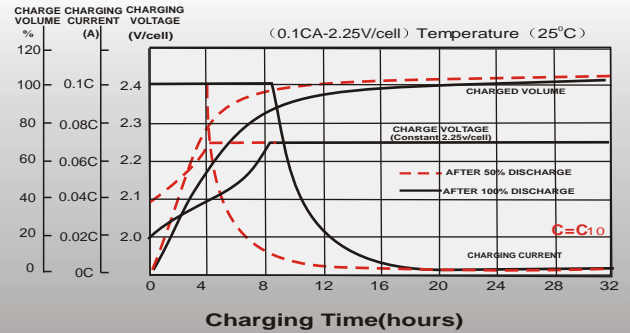
Unit: mm [inches]



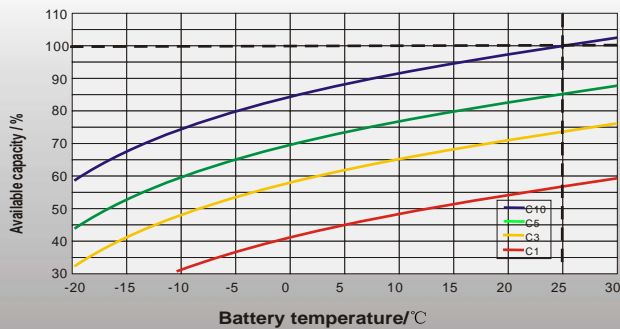
## Discharge Characteristics



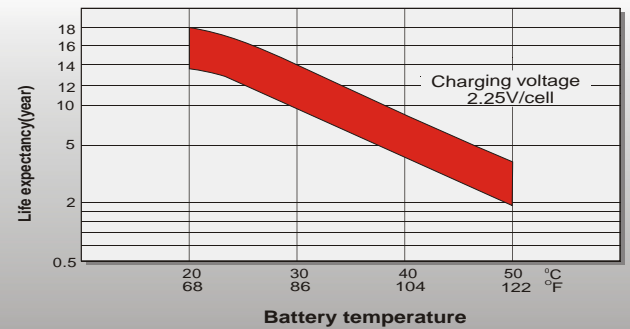
## Float Charging Characteristics



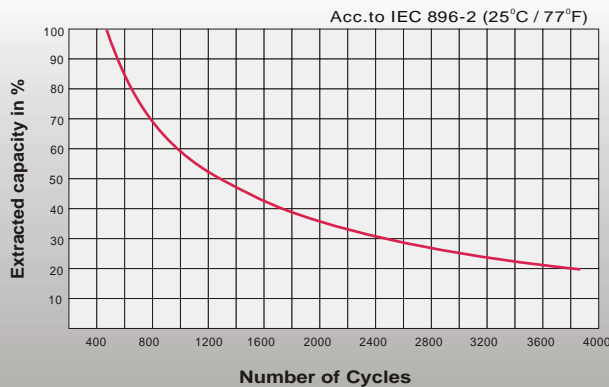
## Temperature Effects in Relation to Battery Capacity



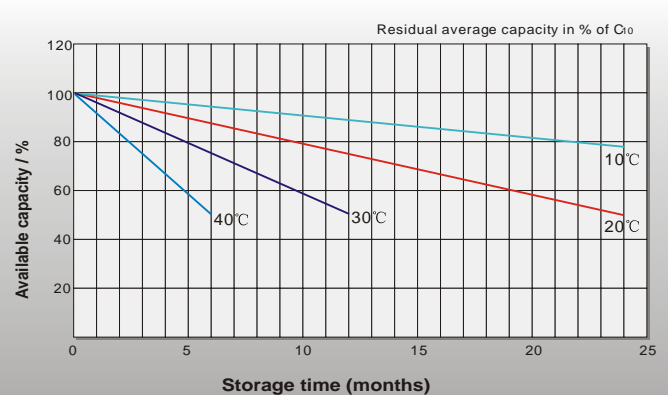
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity VS. Storage Time



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