

# LPG SERIES-GEL Battery

## LPG2-600 (2V, 600AH)

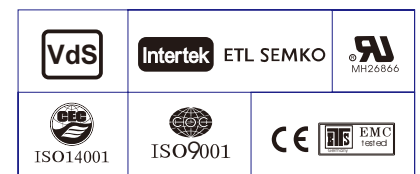
### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	600.0AH	
Dimension	Length	300±3mm (11.81 inches)
	Width	175±2mm ( 6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	340±3mm (13.39 inches)
Approx Weight	Approx 39.0kg (80.5 lbs)	
Terminal	T11 with tin plated copper alloy insert (M8 bolt)	
Container Material	ABS to UL94 HB (Optional UL94-V0 Flame retardant jars available)	
Rated Capacity	640.0 AH/32.0A	(20hr, 1.80V/cell, 25°C/77°F)
	564.0 AH/70.5A	(8hr, 1.75V/cell, 25°C/77°F)
	516.0 A H/103.2A	(5hr, 1.75V/cell, 25°C/77°F)
	448.8 AH/149.6A	(3hr, 1.75V/cell, 25°C/77°F)
	352.0 AH/352.0A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	4200A (5s)	
Internal Resistance	Approx 0.66mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Standby (Float) Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 150.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°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

- ◆ Outside Plant Telecommunications
- ◆ 36 VDC Broadband, CATV pole mounted applications.
- ◆ Wind & Solar power storage systems
- ◆ Engine starting
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Electric Boat Power
- ◆ Wider Temperature Range



### 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	522.0	410.4	312.8	271.8	173.4	132.2	109.5	94.6	81.6	72.3	65.2	59.5	56.3	30.7
1.80V/cell	599.4	458.4	345.6	300.0	187.8	141.6	116.1	99.4	85.7	75.6	68.3	62.7	58.9	32.0
1.75V/cell	673.2	504.0	372.8	320.4	198.9	149.6	121.7	103.2	88.7	78.3	70.5	64.5	60.0	32.6
1.70V/cell	725.4	540.0	396.0	339.6	210.9	155.8	125.6	106.3	91.8	80.9	72.6	66.2	61.4	33.1
1.67V/cell	754.2	561.6	410.4	352.0	216.3	160.8	128.7	108.6	93.3	82.1	73.7	67.1	62.2	33.4
1.60V/cell	817.2	600.0	440.8	373.8	225.0	167.2	133.5	112.0	95.6	83.8	75.0	68.5	63.4	33.9

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

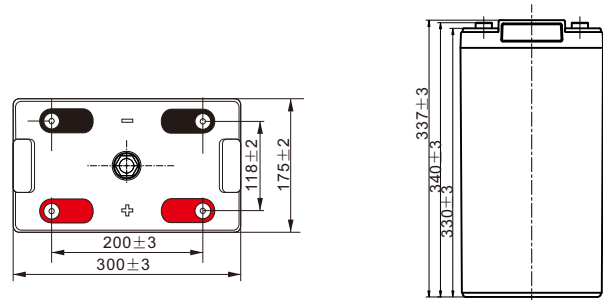
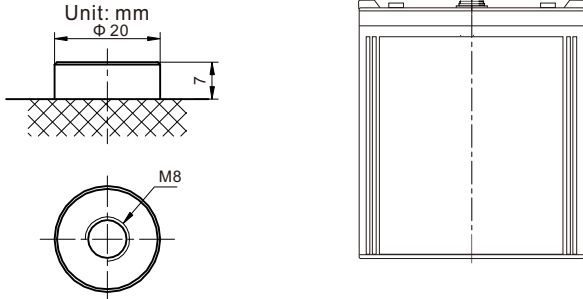
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	991.3	784.7	601.8	525.1	336.2	257.0	213.7	185.2	160.4	142.4	128.7	117.7	111.5	60.9
1.80V/cell	1123.3	868.2	658.7	576.6	362.3	274.3	225.7	194.0	167.9	148.5	134.5	123.6	116.2	63.3
1.75V/cell	1247.4	944.0	704.2	612.6	382.7	289.2	235.8	200.5	173.1	153.5	138.5	127.1	118.4	64.5
1.70V/cell	1329.7	1004.4	745.3	646.9	403.9	300.2	242.7	206.2	178.9	158.3	142.4	130.3	121.1	65.3
1.67V/cell	1366.6	1030.5	765.4	665.3	412.1	308.6	248.0	209.8	181.3	160.1	144.1	131.8	122.3	65.8
1.60V/cell	1464.4	1093.8	817.7	702.7	426.6	319.4	256.5	215.6	185.2	163.0	146.5	134.3	124.5	66.7

Specifications subject to change without notice.

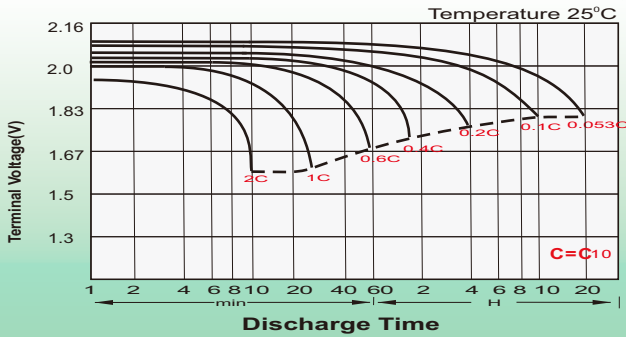


## Dimensions

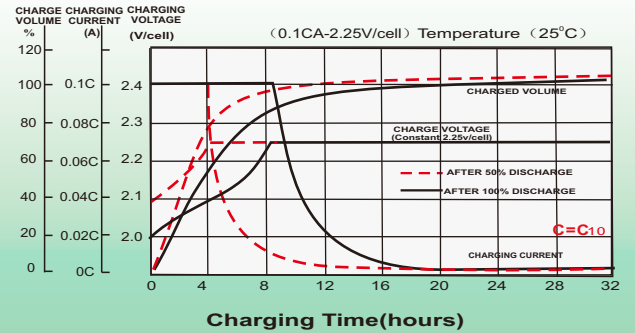
### T11 Terminal



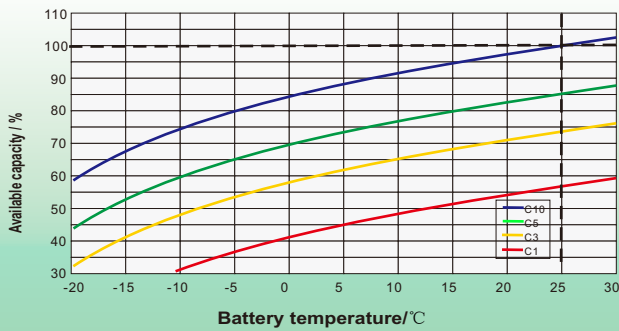
## Discharge Characteristics



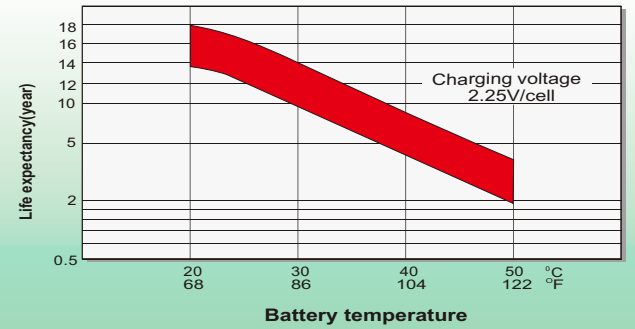
## Float Charging Characteristics



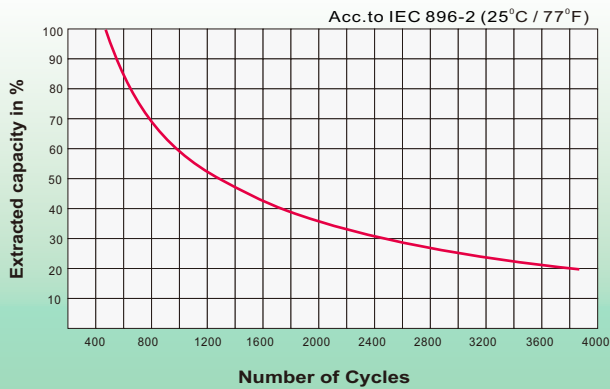
## Temperature Effects in Relation to Battery Capacity



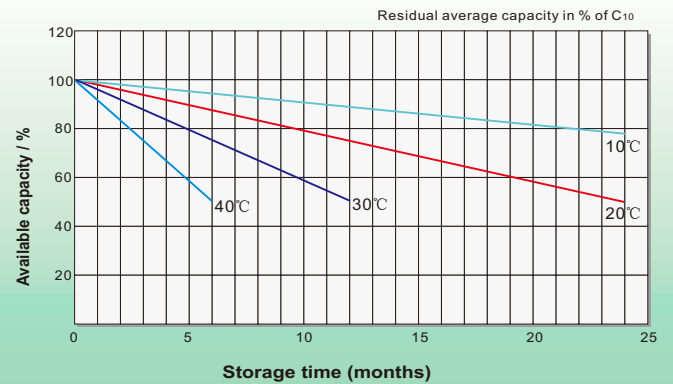
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity VS. Storage Time



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