

# LPG SERIES-GEL Battery

## LPG12-100 (12V100AH)

### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	100.0AH	
Dimension	Length	330±1mm (12.99 inches)
	Width	173±1mm (6.81 inches)
	Container Height	212±1mm (8.35 inches)
	Total Height (with Terminal)	220±1mm (8.66 inches)
Approx Weight	Approx 30.5 kg (67.25lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	100.0 AH/5.00A	(20hr, 1.80V/cell, 25°C/77°F)
	93.0 AH/9.30A	(10hr, 1.75V/cell, 25°C/77°F)
	80.0 AH/16.0A	(5hr, 1.75V/cell, 25°C/77°F)
	69.6 AH/23.2A	(3hr, 1.75V/cell, 25°C/77°F)
	55.0 AH/55.0A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 5.5mΩ	
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)	
Cycle Use	Initial Charging Current less than 25.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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	84.6	66.4	50.7	42.4	26.9	20.5	17.0	14.7	12.7	11.2	10.1	9.23	8.73	4.80
1.80V/cell	96.9	74.2	55.9	46.8	29.1	22.0	18.0	15.4	13.3	11.7	10.6	9.71	9.12	5.00
1.75V/cell	108.9	81.6	60.4	50.1	30.9	23.2	18.9	16.0	13.8	12.1	10.9	10.0	9.30	5.10
1.70V/cell	117.3	87.4	64.1	53.0	32.7	24.2	19.5	16.5	14.2	12.5	11.3	10.3	9.52	5.17
1.67V/cell	122.1	90.8	66.4	55.0	33.6	24.9	20.0	16.8	14.5	12.7	11.4	10.4	9.63	5.22
1.60V/cell	132.3	97.2	71.3	58.4	34.9	25.9	20.7	17.4	14.8	13.0	11.6	10.6	9.82	5.29

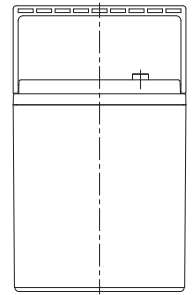
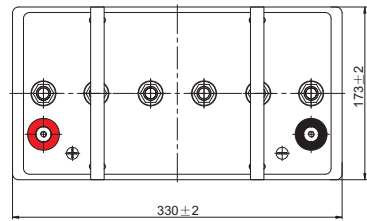
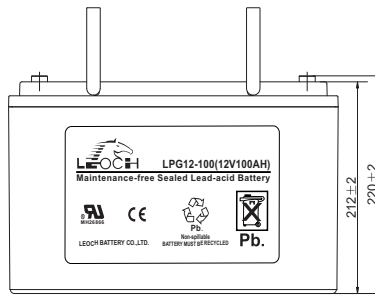
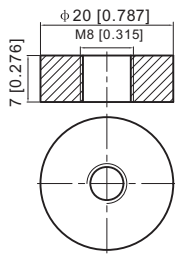
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	161.9	128.0	98.2	82.6	52.6	40.2	33.4	28.9	25.1	22.2	20.1	18.4	17.4	9.58
1.80V/cell	183.0	141.6	107.5	90.7	56.6	42.9	35.3	30.3	26.2	23.2	21.0	19.3	18.1	9.97
1.75V/cell	203.4	154.4	115.4	96.5	59.8	45.2	36.8	31.4	27.1	24.0	21.6	19.9	18.5	10.2
1.70V/cell	216.8	163.9	121.7	101.6	63.1	46.9	37.9	32.3	28.0	24.7	22.2	20.4	18.9	10.3
1.67V/cell	223.1	168.5	125.1	104.8	64.4	48.2	38.7	32.8	28.3	25.0	22.5	20.6	19.1	10.4
1.60V/cell	239.1	178.7	133.4	110.7	66.7	49.9	40.1	33.8	28.9	25.5	22.9	21.0	19.4	10.5

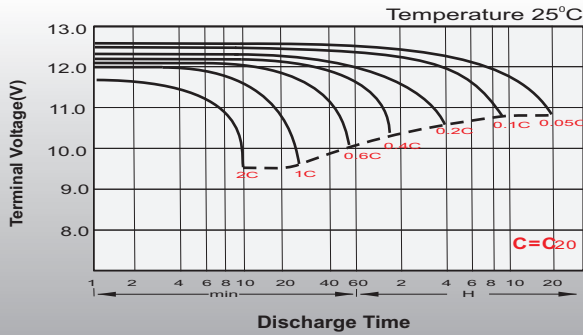
## Dimensions

### T11 Terminal

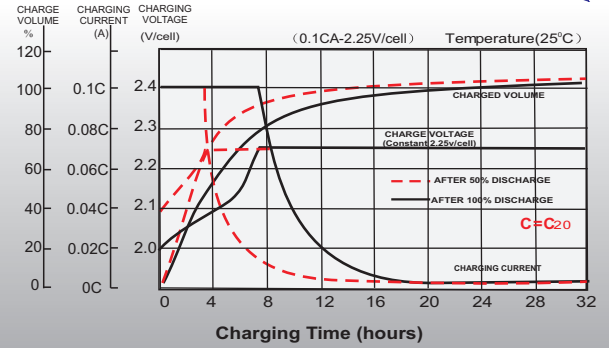
Unit: mm [inches]



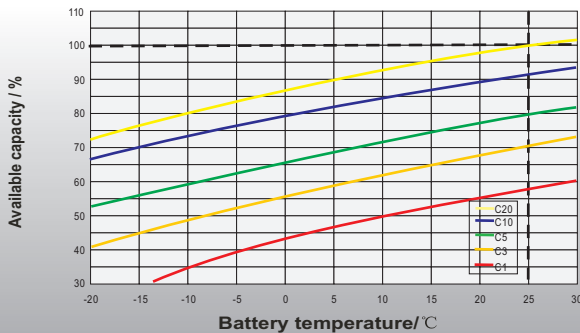
## Discharge Characteristics



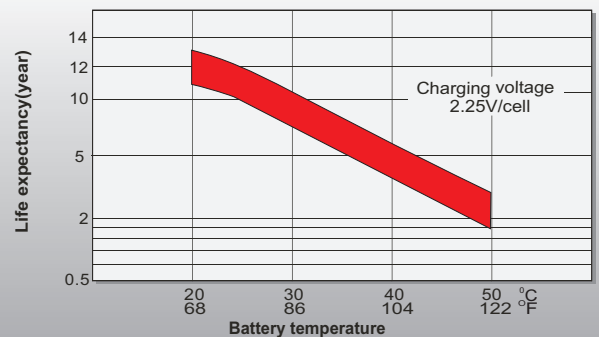
## Float Charging Characteristics



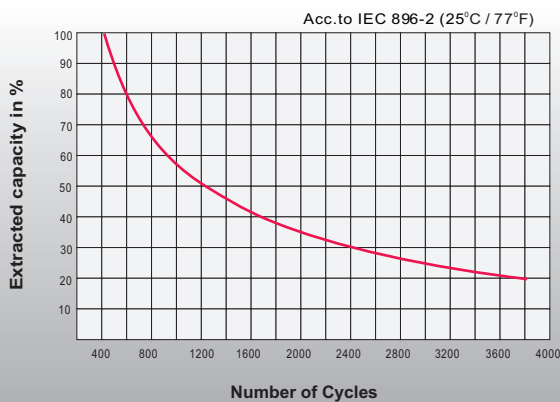
## Temperature Effects in Relation to Battery Capacity



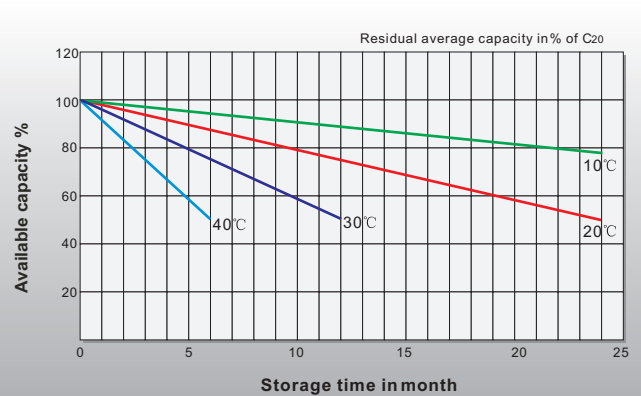
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity VS. Storage Time



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