

# LPFG SERIES- Front Terminal GEL

## LPFG12-180 (12V150AH)



### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	150.0AH	
Dimension	Length	550 ± 3mm (21.65 inches)
	Width	126 ± 2mm (4.96 inches)
	Container Height	280 ± 3mm (11.02 inches)
	Total Height (with Terminal)	280 ± 3mm (11.02 inches)
Approx Weight	Approx 52 kg (115 lbs)	
Terminal	T13	
Container Material	ABS	
Rated Capacity	158.0 AH/7.90A	(20hr, 1.80V/cell, 25°C/77°F)
	150.0 AH/15.0A	(10hr, 1.80V/cell, 25°C/77°F)
	132.0 AH/26.4A	(5hr, 1.75V/cell, 25°C/77°F)
	114.6 AH/38.2A	(3hr, 1.75V/cell, 25°C/77°F)
	87.0 AH/87.0A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx 5.5mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	-10~45°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 39.5A. Voltage	
	14.1V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.2V~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 LPFG 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

- ◆ Telecom application( 19 inches or 23 inches power cabinets )
- ◆ UPS, Standby power supply
- ◆ Systems Solar Power
- ◆ Network connection equipment of communication system
- ◆ Power station systems
- ◆ Railway and marine systems
- ◆ Cable TV



### 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	125.8	98.7	75.3	63.2	44.3	33.8	28.0	24.1	20.5	18.2	16.4	15.0	14.3	7.59
1.80V/cell	144.0	110.3	83.0	69.7	47.9	36.2	29.6	25.4	21.6	19.0	17.2	15.8	15.0	7.90
1.75V/cell	161.9	121.3	89.8	74.6	50.8	38.2	31.0	26.4	22.3	19.7	17.7	16.2	15.3	8.06
1.70V/cell	174.4	129.9	95.3	79.0	53.9	39.8	32.1	27.2	23.1	20.4	18.3	16.7	15.6	8.16
1.67V/cell	181.5	135.0	98.7	81.9	55.3	41.1	32.9	27.7	23.5	20.7	18.5	16.9	15.8	8.24
1.60V/cell	196.7	144.5	106.0	87.0	57.5	42.7	34.1	28.6	24.1	21.1	18.9	17.2	16.1	8.36

### Constant Power Discharge (Watts/cell) 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	240.7	190.2	146.0	123.0	86.6	66.1	55.0	47.7	40.7	36.1	32.6	29.9	28.6	15.1
1.80V/cell	272.1	210.5	159.5	135.0	93.2	70.6	58.1	49.9	42.6	37.7	34.1	31.3	29.8	15.7
1.75V/cell	302.4	229.0	170.9	143.8	98.5	74.4	60.6	51.6	43.9	38.9	35.1	32.2	30.3	16.0
1.70V/cell	322.2	243.6	180.8	151.6	104.0	77.3	62.5	53.1	45.4	40.1	36.1	33.0	31.0	16.2
1.67V/cell	331.6	249.7	185.6	156.1	106.1	79.4	63.8	54.0	46.0	40.6	36.6	33.4	31.3	16.4
1.60V/cell	355.4	265.6	198.3	164.9	109.9	82.2	66.0	55.5	47.0	41.4	37.1	34.1	31.9	16.6

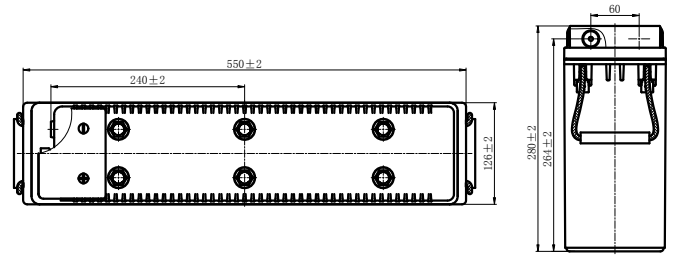
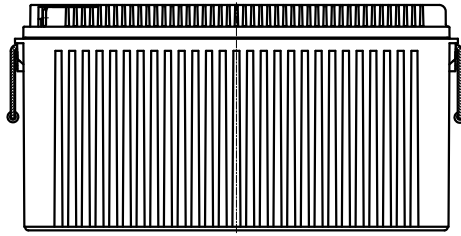
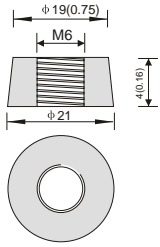
Specifications subject to change without notice.



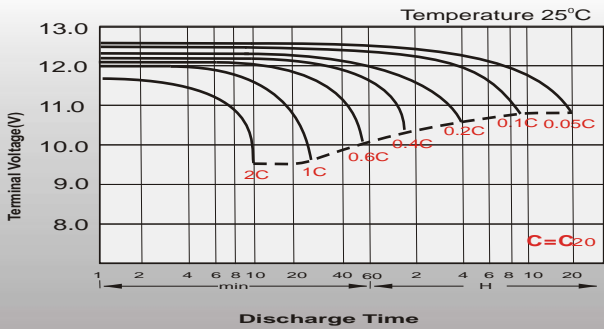
# Dimensions

## T13 Terminal

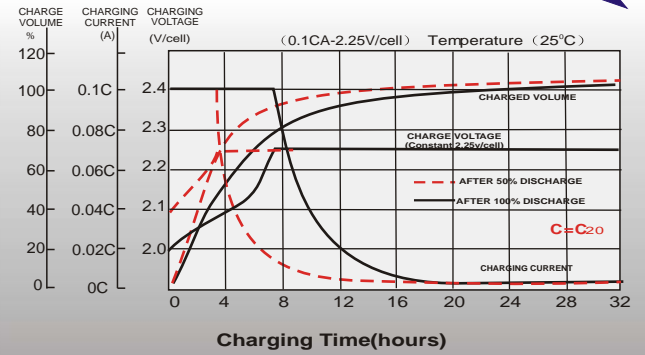
Unit: mm [inches]



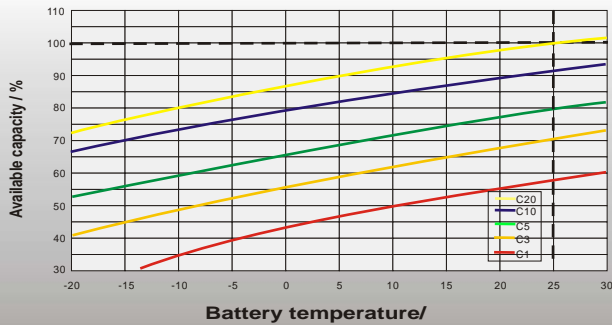
## Discharge Characteristics



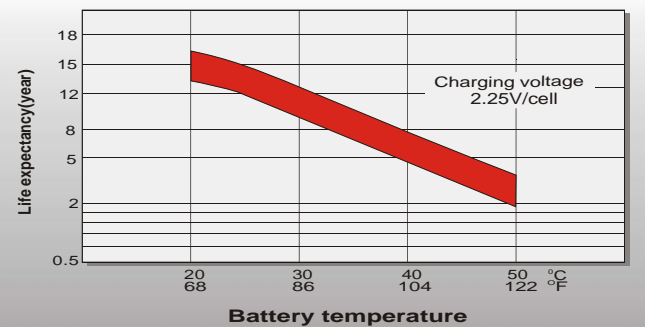
## Float Charging Characteristics



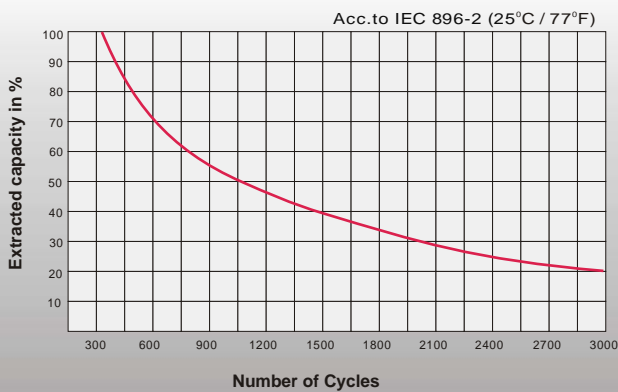
## Temperature Effects in Relation to Battery Capacity



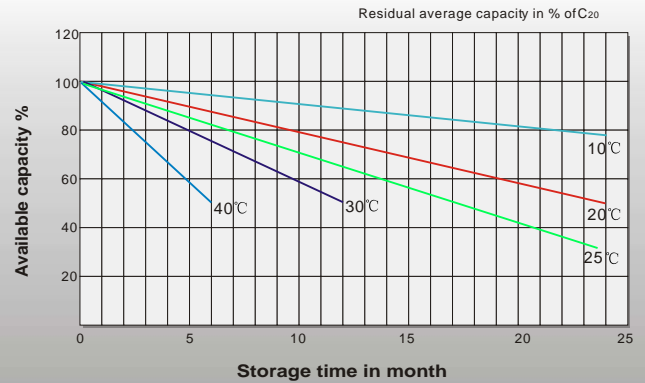
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity VS. Storage Time



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