

LPFG SERIES- Front Terminal GEL

LPFG12-100H (12V96AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	96.0AH	
Dimension	Length	394 ± 3mm (15.51inches)
	Width	110 ± 2mm (4.33inches)
	Container Height	285 ± 3mm (11.22inches)
	Total Height (with Terminal)	285 ± 3mm (11.22inches)
Approx Weight	Approx 35.0 kg (77.2lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	96.0 AH/4.80A	(20hr, 1.80V/cell, 25°C/77°F)
	90.0 AH/9.0A	(10hr, 1.80V/cell, 25°C/77°F)
	79.2 AH/15.84A	(5hr, 1.75V/cell, 25°C/77°F)
	69.0 AH/23.0A	(3hr, 1.75V/cell, 25°C/77°F)
	52.2 AH/52.2A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	960A (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 24A. 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 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	75.6	59.4	45.3	37.9	26.6	20.3	16.8	14.5	12.5	11.1	10.0	9.11	8.62	4.61
1.80V/cell	86.6	66.3	49.9	41.8	28.8	21.7	17.8	15.2	13.1	11.6	10.4	9.58	9.00	4.80
1.75V/cell	97.3	72.9	54.0	44.8	30.5	23.0	18.7	15.84	13.6	12.0	10.8	9.87	9.18	4.90
1.70V/cell	104.9	78.1	57.3	47.4	32.4	23.9	19.3	16.3	14.0	12.4	11.1	10.1	9.39	4.96
1.67V/cell	109.1	81.2	59.4	49.2	33.2	24.7	19.8	16.7	14.3	12.6	11.3	10.3	9.50	5.01
1.60V/cell	118.3	86.9	63.8	52.2	34.6	25.7	20.5	17.2	14.6	12.8	11.5	10.5	9.69	5.08

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	144.7	114.4	87.8	73.8	52.0	39.8	33.1	28.6	24.7	22.0	19.8	18.2	17.2	9.20
1.80V/cell	163.6	126.6	95.9	81.0	56.0	42.5	34.9	30.0	25.9	22.9	20.7	19.0	17.9	9.57
1.75V/cell	181.8	137.7	102.8	86.3	59.2	44.7	36.4	31.0	26.7	23.7	21.3	19.6	18.2	9.75
1.70V/cell	193.8	146.5	108.8	91.0	62.5	46.5	37.6	31.9	27.6	24.4	21.9	20.1	18.7	9.86
1.67V/cell	199.4	150.2	111.6	93.7	63.8	47.7	38.4	32.5	28.0	24.7	22.2	20.3	18.8	9.95
1.60V/cell	213.7	159.7	119.2	98.9	66.0	49.4	39.7	33.4	28.5	25.1	22.6	20.7	19.2	10.1

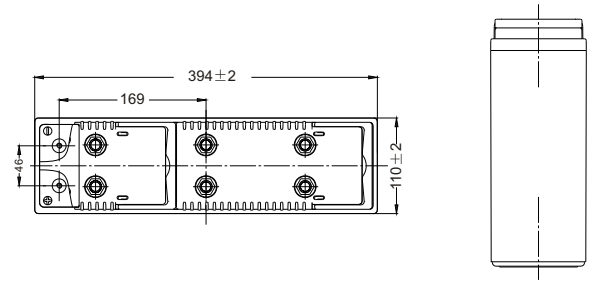
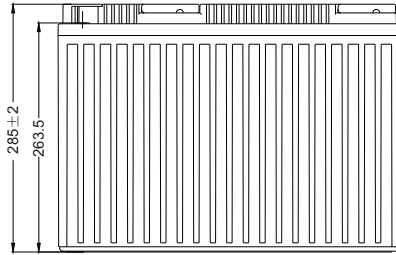
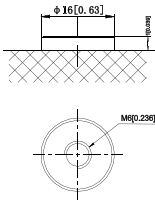
Specifications subject to change without notice.



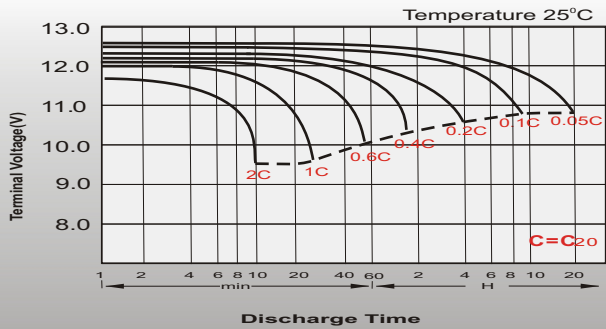
Dimensions

T6 Terminal

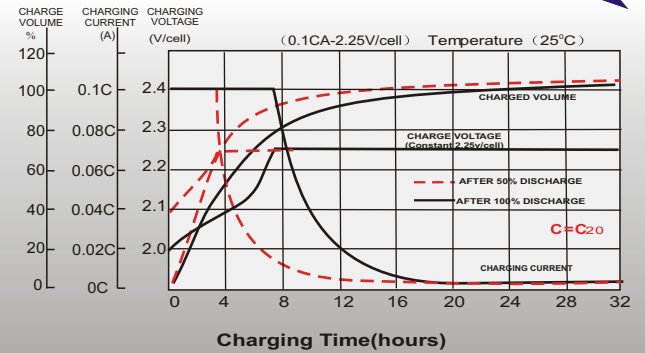
Unit: mm [inches]



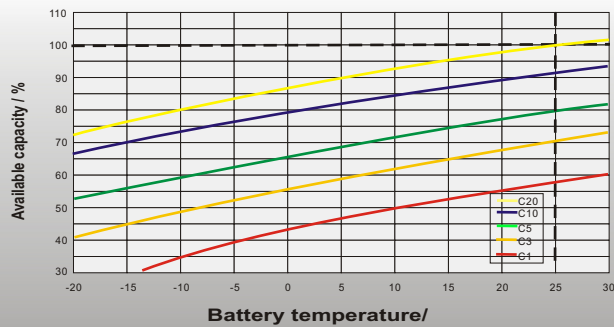
Discharge Characteristics



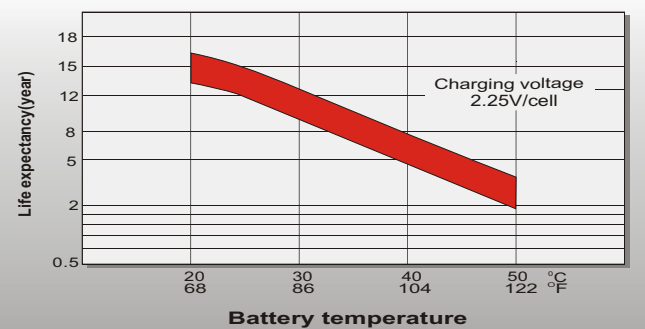
Float Charging Characteristics



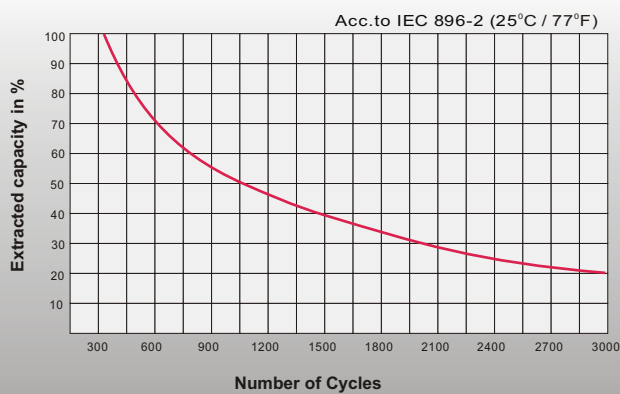
Temperature Effects in Relation to Battery Capacity



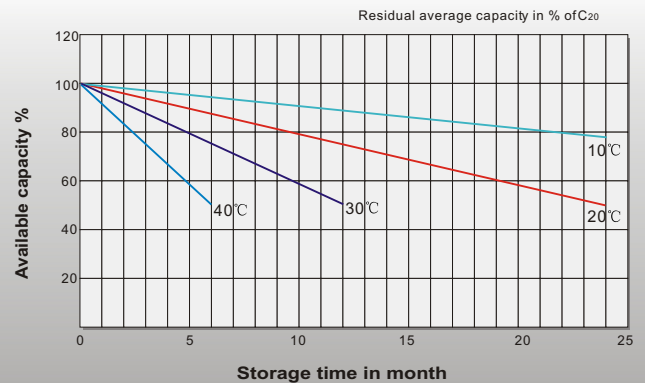
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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