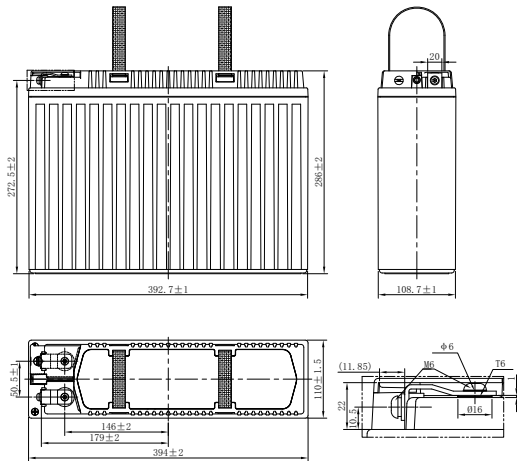


LPF SERIES-FRONT TERMINAL

LPF12-100 (12V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ : 1.80V/cell	100Ah
Dimension	Length	394mm (15.5inches)
	Width	110mm (4.33inches)
	Container Height	286mm (11.3inches)
	Total Height	286mm (11.3inches)
Approx Weight	31.0kg (68.3lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1900A	
Internal Resistance (25°C)	Approx 5.5 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤3% per month at 25°C (77°F). LPF series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Self Discharge		

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	128.1	117.9	82.7	78.3	63.4	36.9	26.5	20.8	17.2	14.7	11.5	9.80	5.46
1.80V/cell	149.0	129.0	93.6	82.7	66.6	38.2	27.2	21.3	17.6	15.0	11.9	10.0	5.54
1.75V/cell	157.6	137.1	97.8	84.9	68.2	39.0	27.7	21.6	17.8	15.2	12.1	10.1	5.58
1.70V/cell	166.6	144.4	102.1	86.1	69.1	39.4	28.0	21.8	18.0	15.4	12.3	10.2	5.59
1.67V/cell	171.8	149.4	104.7	86.7	69.5	39.6	28.2	22.0	18.1	15.5	12.4	10.4	5.62
1.60V/cell	184.1	153.2	110.6	87.4	70.0	39.9	28.4	22.3	18.5	15.6	12.7	10.6	5.65

Constant Power Discharge (Watts/cell) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	246.1	228.0	159.9	154.0	126.0	75.1	54.1	42.6	35.2	30.0	23.3	19.7	10.5
1.80V/cell	283.2	248.0	179.3	162.0	132.0	77.4	55.6	43.6	36.0	30.7	23.9	20.2	10.9
1.75V/cell	296.5	262.2	185.8	166.0	135.0	78.6	56.2	44.1	36.4	31.0	24.1	20.4	11.0
1.70V/cell	309.8	273.3	192.2	169.0	137.0	79.2	56.6	44.3	36.6	31.2	24.3	20.6	11.2
1.67V/cell	317.8	279.2	196.0	170.0	137.1	79.4	56.7	44.4	36.7	31.3	24.4	20.7	11.3
1.60V/cell	334.3	282.3	204.5	172.0	138.0	79.9	57.0	44.6	36.9	31.5	24.9	20.8	11.5

LPF SERIES-FRONT TERMINAL

LPF12-100 (12V100Ah)



APPLICATIONS

- For standard power cabinet
- Network connection equipment of communication system
- Power system of special network of local area network
- Power station systems
- UPS

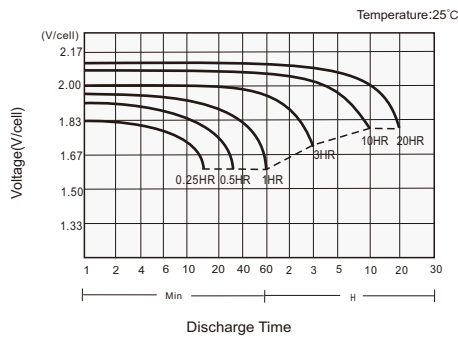
GENERAL FEATURES

- 12+ years design life (25°C)
- Puncture resistant micro-porous glass mat separators extend life
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Front access design for easy installation and maintenance
- Epoxy-sealed posts eliminate leaks

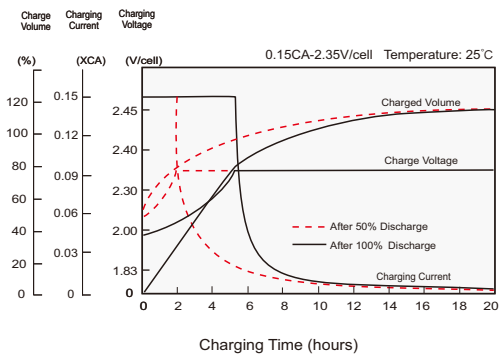
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

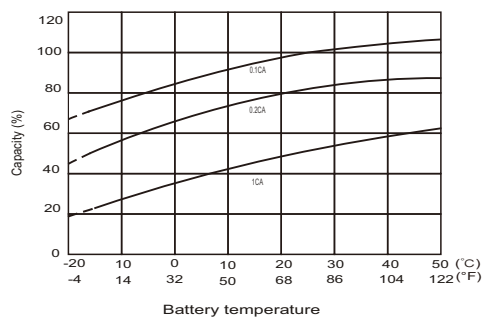
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

