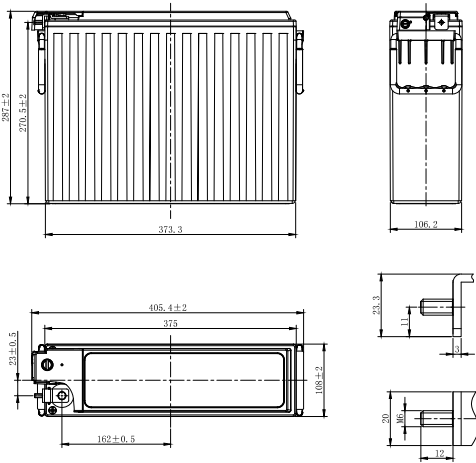


LPF SERIES-FRONT TERMINAL

LPF12-100(P) (12V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	405.4mm (16.0inches)
	Width	108mm (4.25inches)
	Container Height	287mm (11.3inches)
	Total Height	287mm (11.3inches)
Approx Weight	29.8kg (65.7lbs)	
Terminal	T8(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1900A	
Internal Resistance (25°C)	Approx 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)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	
	-5mV/cell/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤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.	

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	135.2	120.8	82.9	75.2	53.2	32.3	23.7	19.8	16.7	13.5	11.1	9.32	4.91
1.80V/cell	155.0	131.9	93.8	79.6	58.7	35.1	25.7	21.3	17.9	14.3	11.9	10.0	5.27
1.75V/cell	163.6	140.0	98.0	82.6	60.9	36.1	26.3	21.8	18.3	14.6	12.1	10.1	5.29
1.70V/cell	172.6	147.3	102.3	84.9	63.1	37.2	27.1	22.3	18.7	14.9	12.3	10.2	5.38
1.67V/cell	177.8	152.3	104.9	86.7	64.4	37.8	27.5	22.6	18.9	15.1	12.4	10.4	5.48
1.60V/cell	190.1	156.1	110.8	88.0	67.4	39.4	28.5	23.3	19.5	15.5	12.7	10.5	5.58
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	257.1	231.5	163.4	149.1	104.9	64.7	49.8	40.5	31.8	28.0	22.8	18.5	10.0
1.80V/cell	294.2	251.5	182.8	156.9	115.0	69.8	53.4	43.2	34.0	29.3	24.3	19.7	10.5
1.75V/cell	307.5	265.7	189.3	162.3	118.3	71.4	54.5	44.1	34.7	29.6	24.7	19.9	10.6
1.70V/cell	320.8	276.8	195.7	165.5	121.7	73.2	55.8	44.9	35.4	30.0	25.1	20.2	10.8
1.67V/cell	328.0	282.7	199.5	167.4	123.5	74.1	56.4	45.4	35.7	30.3	25.3	20.4	10.8
1.60V/cell	345.3	285.8	208.0	168.2	128.2	76.5	58.0	46.6	36.6	30.6	25.8	20.7	11.0

LPF SERIES-FRONT TERMINAL

LPF12-100(P) (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

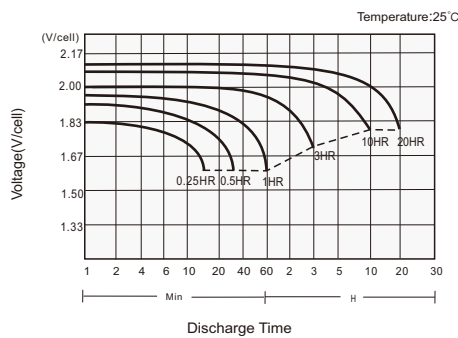
GENERAL FEATURES

- 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

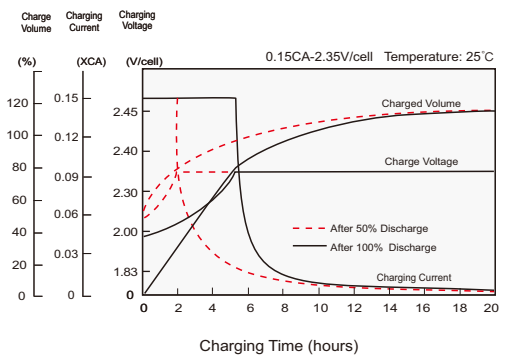
STANDARDS

- 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

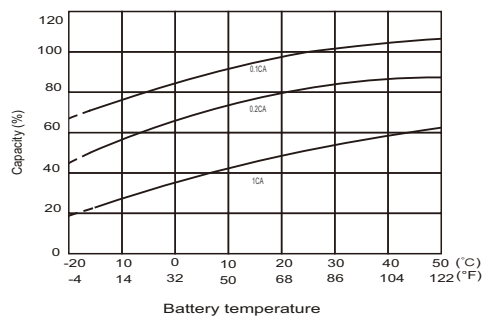
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

