

LPF Series-Front Terminal

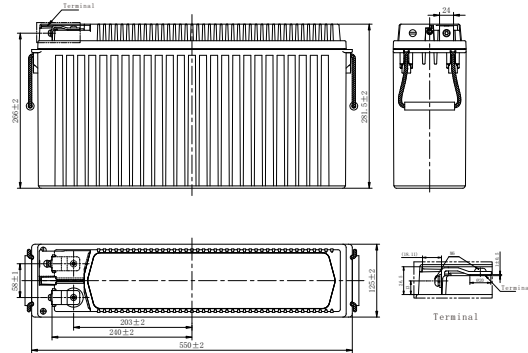
LPF12-170(12V170Ah)

Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{10}, 1.80V/cell$	170.0Ah
Dimension	Length	550±2mm (21.6 inches)
	Width	125±2mm (4.92 inches)
	Container Height	281.5±2mm (11.1 inches)
	Total Height	281.5±2mm (11.1 inches)
Approx Weight	51.0 Kg (112.5 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	180.0 Ah	(20hr, 9.00A, 1.80V/cell)
	170.0 Ah	(10hr, 17.0A, 1.80V/cell)
	168.8 Ah	(8hr, 21.1A, 1.75V/cell)
	151.0 Ah	(5hr, 30.2A, 1.75V/cell)
	115.6 Ah	(1hr, 110.3A, 1.60V/cell)
Max. Discharge Current	1700A (5s)	
Internal Resistance (25°C)	Approx 4.2mΩ	
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)	
Cycle Use	Initial Charging Current less than 54.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 54.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	LPF series batteries may be stored for 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.	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	245.8	223.0	193.8	158.8	122.4	90.8	54.5	41.1	32.7	27.4	24.6	19.3	16.1	8.52
1.80V/cell	285.6	259.3	216.2	170.7	129.4	100.5	59.3	44.5	35.3	29.5	25.2	20.7	17.0	9.00
1.75V/cell	315.2	274.3	230.5	177.5	133.5	104.2	61.1	45.7	36.2	30.2	25.6	21.1	17.5	9.24
1.70V/cell	335.6	289.9	239.7	183.6	136.0	108.0	63.1	47.0	37.1	30.8	25.9	21.4	17.8	9.38
1.67V/cell	350.9	299.0	244.8	187.3	138.9	110.3	64.1	47.7	37.6	31.2	26.2	21.6	17.9	9.47
1.60V/cell	366.2	320.5	251.9	192.5	141.0	115.6	66.8	49.5	38.9	32.2	26.4	22.2	18.3	9.67

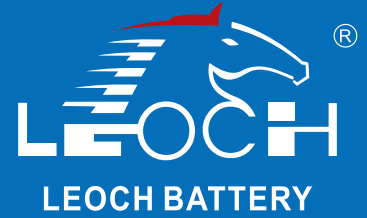
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	459.0	428.3	369.2	305.8	237.7	176.5	106.5	80.6	64.4	53.9	48.8	38.2	32.0	17.2
1.80V/cell	527.1	492.9	405.9	323.7	249.4	194.0	115.3	86.8	69.1	57.9	49.9	40.8	34.0	18.1
1.75V/cell	572.4	516.0	428.7	333.9	254.9	199.7	118.2	88.8	70.6	59.0	50.5	41.4	34.5	18.4
1.70V/cell	595.8	539.2	442.4	343.5	258.7	205.6	121.3	90.9	72.1	60.2	51.0	42.1	35.0	18.6
1.67V/cell	620.6	557.6	450.0	349.8	263.4	208.9	122.9	92.1	72.9	60.8	51.4	42.5	35.3	18.7
1.60V/cell	629.8	581.8	456.6	355.8	264.4	217.0	127.1	94.9	75.0	62.4	51.7	43.3	35.9	19.0



LPF Series-Front Terminal

LPF12-170(12V170Ah)



Applications

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

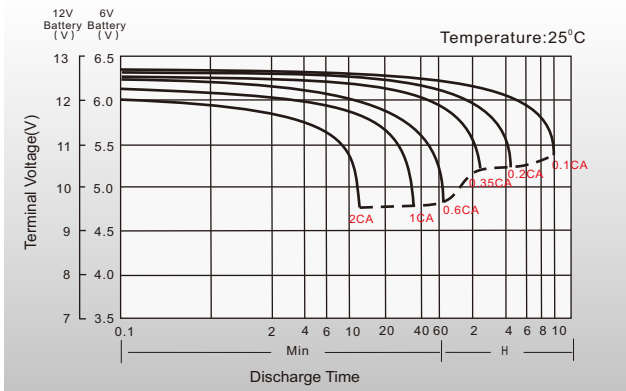
General Features

- 12 years design life(25°C)
- Specifically ideal for 19 inches or 23 inches power cabinets
- Front terminals make the installation, maintenance and supervision easy
- Shield designs protect terminals from short circuit and show good appearance
- Unique vent valve design: reduce water losing and prevent air/spark going inside

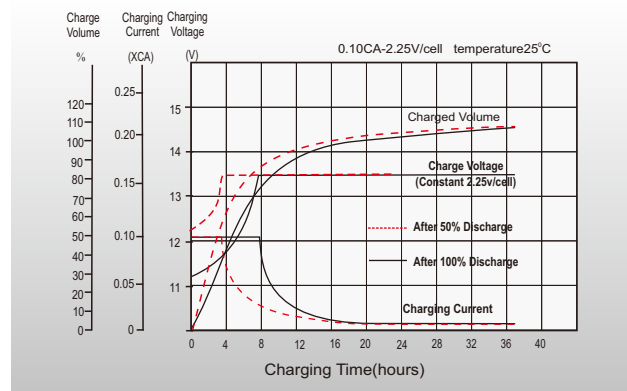
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

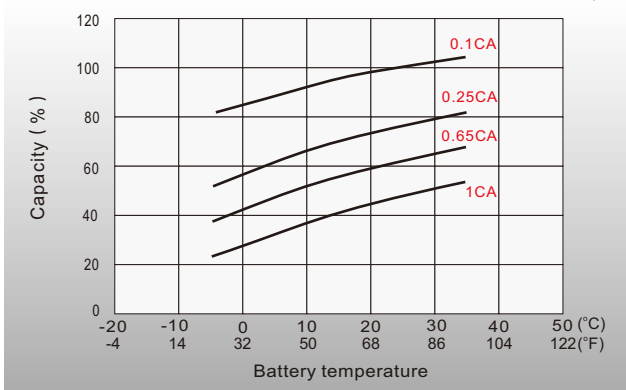
Discharge Characteristics



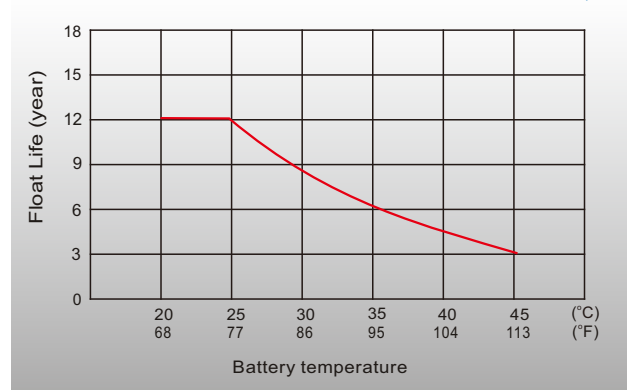
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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