



IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com



LPF Series-Front Terminal

LPF12-150(12V150Ah)

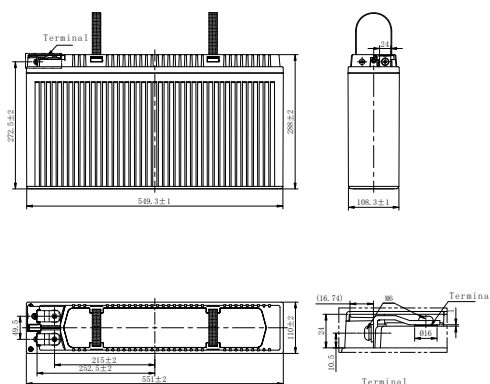


Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{10}, 1.80V/cell$	150.0Ah
Dimension	Length	551±2mm (21.7 inches)
	Width	110±2mm (4.33 inches)
	Container Height	288±2mm (11.3 inches)
	Total Height	288±2mm (11.3 inches)
Approx Weight	44.8 Kg (98.8 lbs)	
Terminal	M6 (M8 is optional)	
Container Material	ABS	
Rated Capacity (25°C)	157.6 Ah	(20hr, 7.88A, 1.80V/cell)
	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	146.4 Ah	(8hr, 18.3A, 1.75V/cell)
	131.5Ah	(5hr, 26.3A, 1.75V/cell)
	100.7 Ah	(1hr, 100.7A, 1.60V/cell)
Max. Discharge Current	1500A (5s)	
Internal Resistance (25°C)	Approx 4.3mΩ	
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 45.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 45.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 45.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	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	217.0	194.1	169.9	125.4	106.1	79.0	47.4	35.8	28.5	23.8	21.7	16.8	14.1	7.38
1.80V/cell	252.0	225.7	188.6	141.7	112.0	87.5	51.6	38.7	30.7	25.7	22.2	18.0	15.0	7.88
1.75V/cell	278.2	238.8	201.2	148.1	116.0	90.7	53.2	39.8	31.5	26.3	22.6	18.3	15.2	8.00
1.70V/cell	296.2	252.4	208.8	154.7	118.4	94.0	54.9	40.9	32.3	26.8	22.9	18.7	15.5	8.12
1.67V/cell	309.6	260.3	214.6	158.6	121.0	96.0	55.8	41.5	32.7	27.2	23.2	18.8	15.6	8.19
1.60V/cell	323.2	279.0	219.6	167.6	122.9	100.7	58.1	43.1	33.8	28.0	23.3	19.3	15.9	8.37

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	405.0	372.9	323.6	242.3	206.0	153.6	92.7	70.2	56.0	46.9	43.1	33.2	27.8	15.0
1.80V/cell	465.1	429.1	354.1	271.7	215.9	168.9	100.4	75.6	60.2	50.4	44.0	35.5	29.6	15.8
1.75V/cell	505.1	449.2	374.2	281.5	221.4	173.9	102.9	77.3	61.5	51.4	44.5	36.1	30.1	16.0
1.70V/cell	525.7	469.4	385.4	291.3	225.2	179.0	105.6	79.2	62.8	52.4	45.0	36.6	30.5	16.2
1.67V/cell	547.6	485.5	394.4	297.0	229.4	181.9	107.0	80.1	63.5	52.9	45.4	37.0	30.7	16.3
1.60V/cell	555.7	506.5	397.9	309.8	230.4	188.9	110.7	82.6	65.3	54.3	45.6	37.7	31.3	16.6



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Applications

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

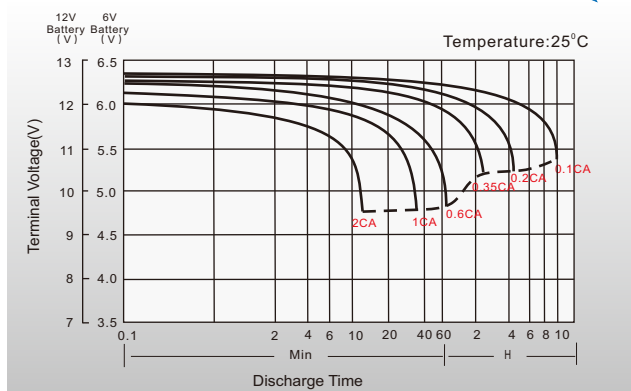
General Features

- 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

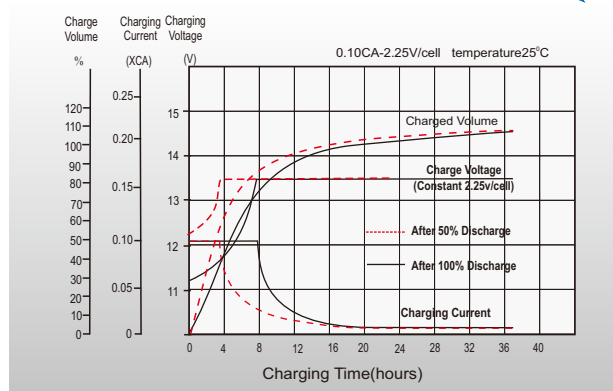
Standards

- 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

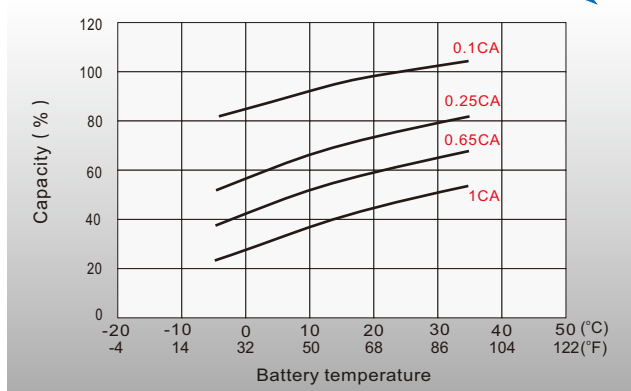
Discharge Characteristics



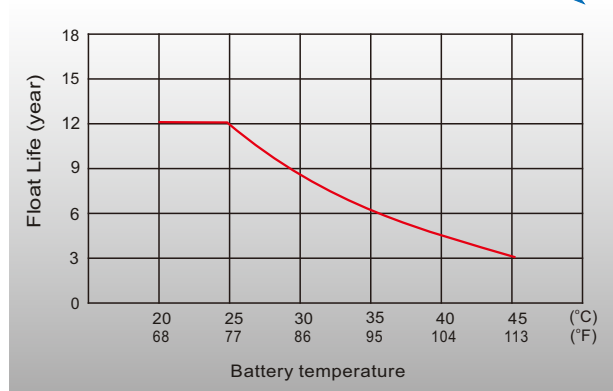
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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