



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



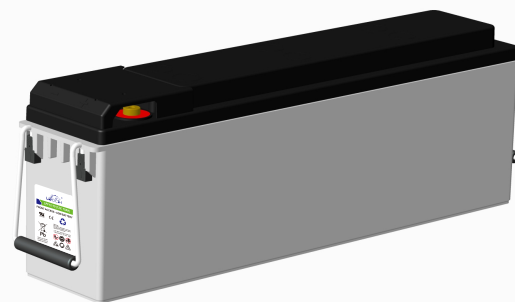
LPF Series-Front Terminal

LPF12-70(12V70Ah)

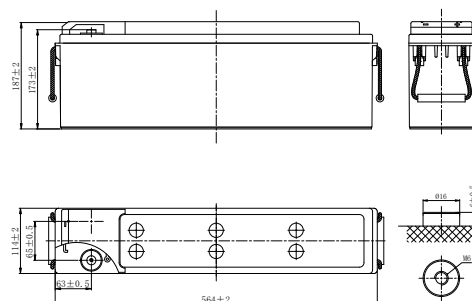


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	70.0Ah
Dimension	Length	564±2mm (22.2 inches)
	Width	114±2mm (4.49 inches)
	Container Height	187±2mm (7.36 inches)
	Total Height	187±2mm (7.36 inches)
Approx Weight	25.5 Kg (56.2 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	74.6 Ah	(20hr, 3.73A, 1.80V/cell)
	70.0 Ah	(10hr, 7.00A, 1.80V/cell)
	68.4 Ah	(8hr, 8.55A, 1.75V/cell)
	61.5 Ah	(5hr, 12.3A, 1.75V/cell)
	47.0 Ah	(1hr, 47.0A, 1.60V/cell)
Max. Discharge Current	700A (5s)	
Internal Resistance (25°C)	Approx 5.2mΩ	
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 21.0A. 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 21.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
	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	104.6	91.6	81.3	64.7	49.8	36.9	22.1	16.7	13.3	11.1	10.0	7.85	6.56	3.52
1.80V/cell	123.9	106.4	91.8	71.3	53.6	40.8	24.1	18.1	14.3	12.0	10.6	8.40	7.00	3.73
1.75V/cell	135.2	115.4	97.0	74.2	55.2	42.3	24.8	18.6	14.7	12.3	10.7	8.55	7.11	3.76
1.70V/cell	143.6	120.4	100.6	76.6	56.6	43.9	25.6	19.1	15.1	12.5	10.8	8.70	7.22	3.80
1.67V/cell	149.1	123.5	103.5	78.0	57.5	44.8	26.0	19.4	15.3	12.7	10.8	8.80	7.28	3.83
1.60V/cell	153.3	130.2	105.8	79.4	58.6	47.0	27.1	20.1	15.8	13.1	10.9	9.00	7.44	3.90

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	199.2	176.1	157.5	126.2	97.7	71.7	43.3	32.7	26.1	21.9	20.1	15.5	13.0	6.99
1.80V/cell	234.3	203.3	176.8	138.4	104.6	78.8	46.8	35.3	28.1	23.5	21.1	16.6	13.8	7.37
1.75V/cell	253.9	219.0	186.1	143.5	107.4	81.1	48.0	36.1	28.7	24.0	21.3	16.8	14.0	7.46
1.70V/cell	266.1	226.0	190.9	146.7	109.2	83.5	49.3	36.9	29.3	24.4	21.5	17.1	14.2	7.55
1.67V/cell	272.0	228.4	194.0	147.8	109.9	84.9	49.9	37.4	29.6	24.7	21.7	17.2	14.3	7.60
1.60V/cell	273.7	230.2	195.7	148.5	111.3	88.2	51.6	38.6	30.5	25.3	21.9	17.6	14.6	7.73



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LPF Series-Front Terminal

LPF12-70(12V70Ah)



Applications

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

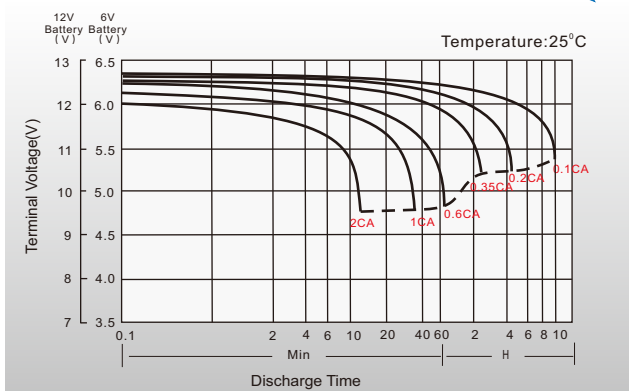
General Features

- 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

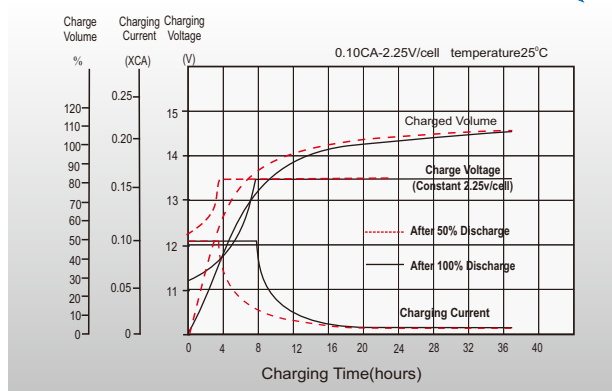
Standards

- 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

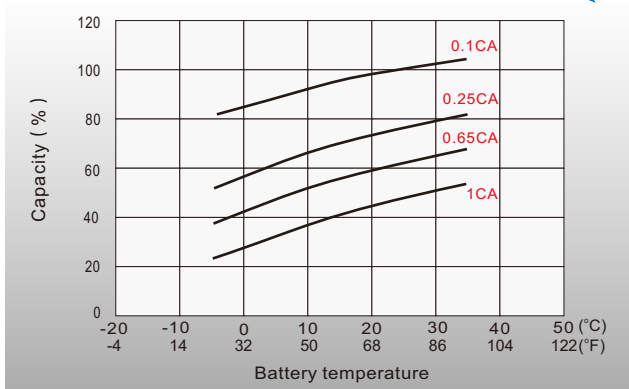
Discharge Characteristics



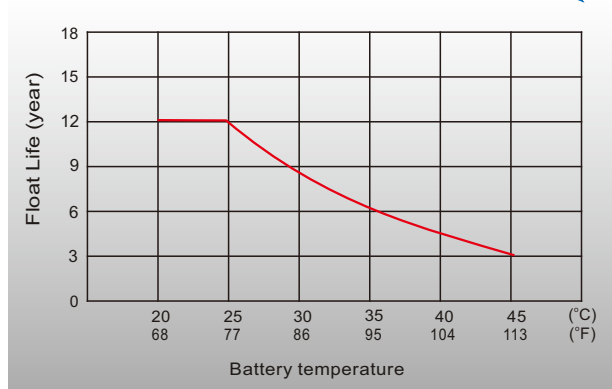
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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