



LPF Series-Front Terminal

LPF12-180(12V180Ah)

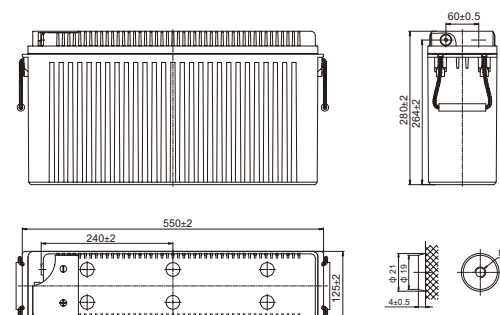


Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{10}, 1.80V/cell$	180.0Ah
Dimension	Length	550±2mm (21.6 inches)
	Width	125±2mm (4.92 inches)
	Container Height	280±2mm (11.0 inches)
	Total Height	280±2mm (11.0 inches)
Approx Weight	51.2 Kg (112.9 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	188.0 Ah	(20hr, 9.40A, 1.80V/cell)
	180.0 Ah	(10hr, 18.0A, 1.80V/cell)
	175.2 Ah	(8hr, 21.9A, 1.75V/cell)
	156.5 Ah	(5hr, 31.3A, 1.75V/cell)
	118.9 Ah	(1hr, 118.9A, 1.60V/cell)
Max. Discharge Current	1800A (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	
	Initial Charging Current less than 54.0A. 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	252.8	229.4	199.3	163.3	125.9	93.4	56.5	42.6	33.9	28.4	25.5	20.0	17.0	8.90
1.80V/cell	293.8	266.7	222.4	175.6	133.1	103.4	61.5	46.2	36.6	30.6	26.1	21.5	18.0	9.40
1.75V/cell	324.2	282.1	237.1	182.6	137.3	107.2	63.4	47.4	37.6	31.3	26.6	21.9	18.5	9.70
1.70V/cell	345.2	298.2	246.6	188.9	139.9	111.1	65.5	48.8	38.5	32.0	26.9	22.2	18.8	9.80
1.67V/cell	360.9	307.6	251.8	192.7	142.9	113.5	66.5	49.5	39.0	32.4	27.2	22.4	18.9	9.90
1.60V/cell	376.7	329.7	259.1	198.0	145.0	118.9	69.3	51.4	40.4	33.4	27.4	23.0	19.3	10.1

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	472.1	440.5	379.8	314.5	244.5	181.5	110.5	83.6	66.8	55.9	50.6	39.6	33.8	18.0
1.80V/cell	542.2	507.0	417.5	333.0	256.5	199.5	119.6	90.1	71.7	60.1	51.8	42.3	35.9	18.9
1.75V/cell	588.4	530.8	441.0	343.4	262.2	205.4	122.6	92.1	73.3	61.2	52.4	43.0	36.4	19.3
1.70V/cell	612.8	554.6	455.1	353.3	266.1	211.5	125.9	94.3	747.2	62.5	52.9	43.7	37.0	19.5
1.67V/cell	638.3	573.5	462.9	359.8	270.9	214.9	127.5	95.6	75.6	63.1	53.3	44.1	37.3	19.6
1.60V/cell	647.8	598.4	469.7	366.0	272.0	223.2	131.9	98.5	77.8	64.7	53.6	44.9	37.9	19.9



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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

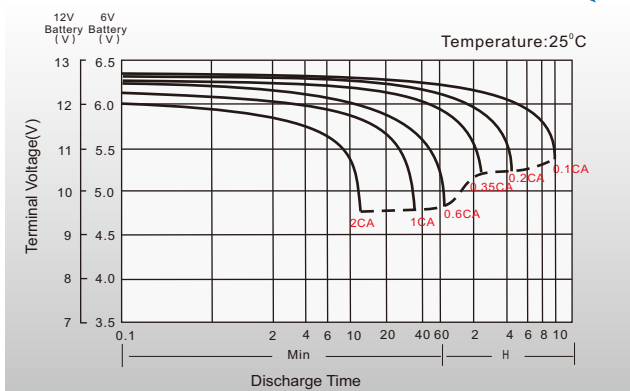
General Features

- 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

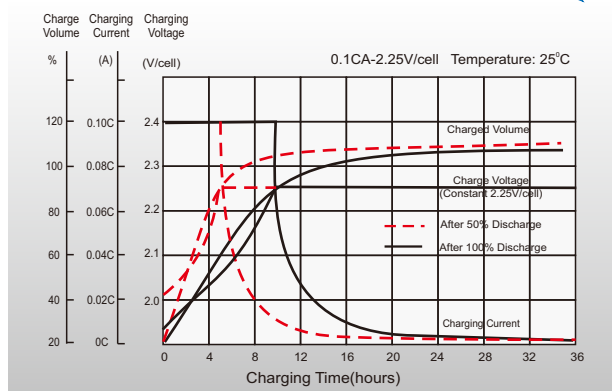
Standards

- 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

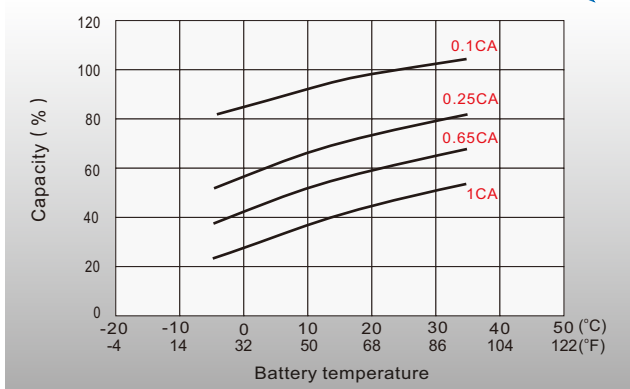
Discharge Characteristics



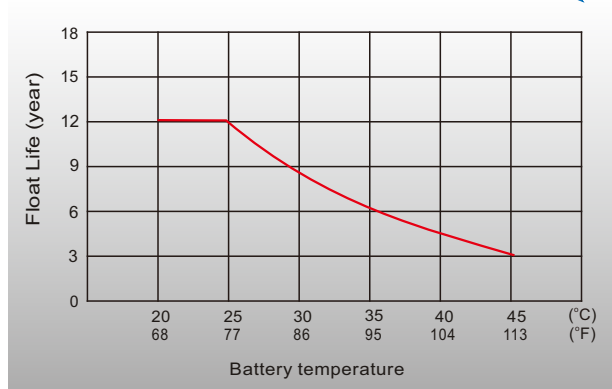
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



distributed by: Power Storage Deutschland GmbH

+49 (0)6081 96582-0

info@psd-power.de

www.psd-power.de



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