



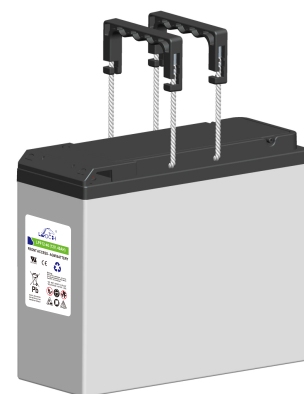
LPF Series-Front Terminal

LPF12-40(12V40Ah)

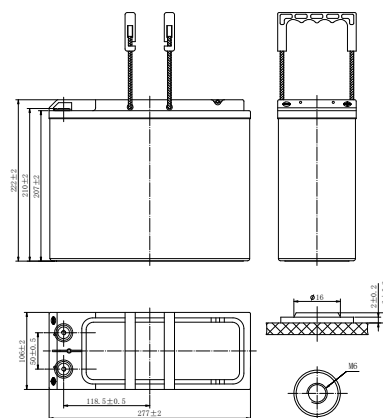


Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{10}, 1.80V/cell$	40.0Ah
Dimension	Length	277±2mm (10.9 inches)
	Width	106±2mm (4.17 inches)
	Container Height	222±2mm (8.74 inches)
	Total Height	222±2mm (8.74 inches)
Approx Weight	15.5 Kg (34.2 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	42.0 Ah	(20hr, 2.10A, 1.80V/cell)
	40.0 Ah	(10hr, 4.00A, 1.80V/cell)
	39.8 Ah	(8hr, 4.98A, 1.75V/cell)
	37.8 Ah	(5hr, 7.56A, 1.75V/cell)
	29.0 Ah	(1hr, 29.0A, 1.60V/cell)
Max. Discharge Current	400A (5s)	
Internal Resistance (25°C)	Approx 9.0mΩ	
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 12.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 12.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 12.0A. 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	67.5	59.3	51.3	40.3	30.2	22.8	13.7	10.3	8.21	6.86	6.05	4.57	3.75	2.01
1.80V/cell	77.8	66.7	56.8	43.5	32.0	25.2	14.9	11.2	8.85	7.39	6.22	4.90	4.00	2.10
1.75V/cell	83.5	70.7	59.4	45.1	32.9	26.1	15.3	11.4	9.07	7.56	6.34	4.98	4.06	2.15
1.70V/cell	88.5	73.3	61.3	46.4	33.6	27.1	15.8	11.8	9.30	7.73	6.46	5.07	4.13	2.17
1.67V/cell	92.3	75.2	62.8	47.3	34.2	27.6	16.1	12.0	9.43	7.83	6.51	5.13	4.16	2.19
1.60V/cell	95.0	77.4	64.1	48.3	34.7	29.0	16.7	12.4	9.74	8.07	6.59	5.25	4.25	2.23

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	129.9	109.4	94.8	75.2	58.8	44.2	26.7	20.2	16.1	13.5	12.1	9.04	7.42	4.00
1.80V/cell	145.5	123.6	103.4	81.0	62.8	48.6	28.9	21.8	17.3	14.5	12.7	9.65	7.90	4.17
1.75V/cell	157.2	129.4	109.3	84.4	64.5	50.1	29.6	22.3	17.7	14.8	12.9	9.81	8.01	4.26
1.70V/cell	164.4	135.2	112.9	86.4	65.8	51.6	30.4	22.8	18.1	15.1	13.0	10.0	8.13	4.31
1.67V/cell	169.5	138.7	114.7	87.3	65.8	52.4	30.8	23.1	18.3	15.2	13.1	10.1	8.19	4.34
1.60V/cell	173.2	145.9	118.2	89.2	66.8	54.4	31.9	23.8	18.8	15.6	13.3	10.3	8.34	4.42



LPF Series-Front Terminal

LPF12-40(12V40Ah)



Applications

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

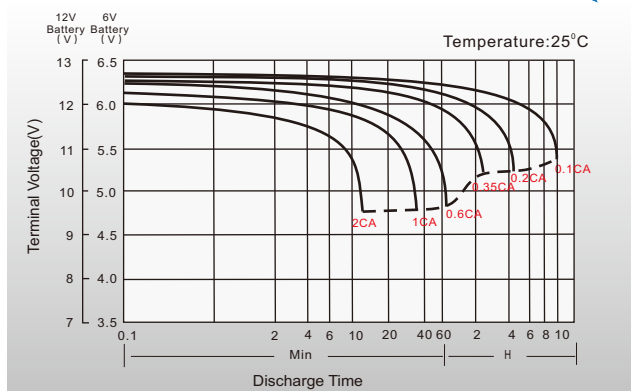
General Features

- 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

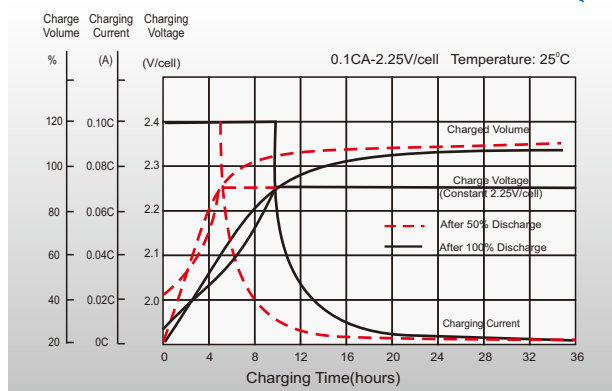
Standards

- 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

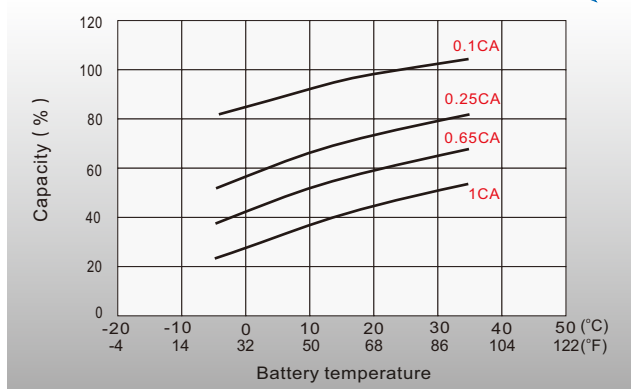
Discharge Characteristics



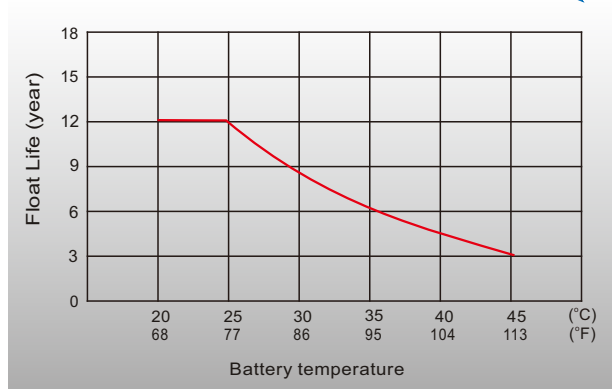
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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