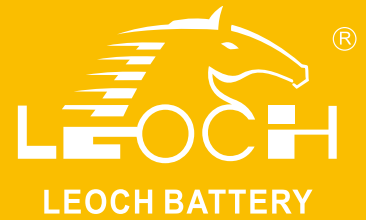




LP Series-General Purpose LP2-450(2V450Ah)

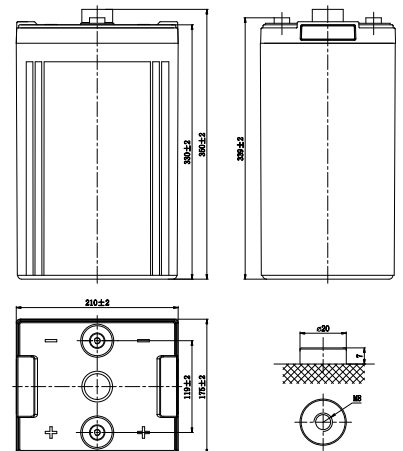


Specifications

Rated Voltage	2V	
Nominal Capacity	450.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	210±2mm (8.27 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (12.99 inches)
	Total Height	350±2mm (13.78 inches)
Approx Weight	26.0 Kg (57.3 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	478.0 Ah	(20hr, 23.9A, 1.80V/cell)
	450.0 Ah	(10hr, 45.0A, 1.80V/cell)
	399.0Ah	(5hr, 78.8A, 1.75V/cell)
	351.0Ah	(3hr, 117.0A, 1.75V/cell)
	283.1 Ah	(1hr, 283.1A, 1.60V/cell)
Max. Discharge Current	3600A (5s)	
Internal Resistance (25°C)	Approx 0.60mΩ	
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 135.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 135.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LP 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)

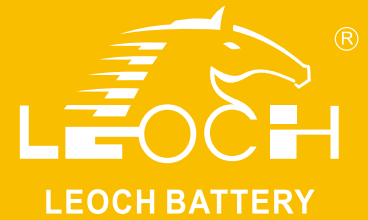
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	450.8	392.8	321.2	254.0	222.3	170.9	138.4	105.3	84.7	71.5	62.1	50.4	42.2	22.6
1.80V/cell	524.3	452.6	363.2	284.0	246.0	187.0	150.6	114.0	91.3	77.0	66.6	54.0	45.0	23.9
1.75V/cell	554.6	474.9	379.6	295.5	255.1	193.3	155.2	117.0	93.6	78.8	68.0	55.0	45.7	24.2
1.70V/cell	586.1	499.8	405.3	306.8	264.5	199.8	160.2	120.4	96.0	80.5	69.4	56.0	46.4	24.5
1.67V/cell	604.6	513.9	433.3	313.7	270.0	203.4	162.9	122.2	97.3	81.5	70.2	56.5	46.8	24.6
1.60V/cell	648.0	547.2	438.3	329.9	283.1	212.5	169.7	126.7	100.5	84.0	72.2	57.9	47.8	25.1

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

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	866.1	756.8	620.9	492.5	432.1	333.2	270.6	206.5	166.5	140.7	122.4	99.7	83.4	44.9
1.80V/cell	996.7	863.6	696.1	546.6	475.0	362.5	292.9	222.5	178.8	151.1	130.9	106.5	88.9	47.4
1.75V/cell	1043.3	897.4	721.3	564.5	489.0	372.4	300.2	227.5	182.6	154.1	133.3	108.2	90.2	47.9
1.70V/cell	1090.3	935.0	763.2	581.3	503.5	382.7	308.2	233.1	186.6	157.1	135.8	109.9	91.4	48.5
1.67V/cell	1117.2	955.4	808.2	591.4	511.6	388.1	312.3	235.9	188.7	158.7	137.2	110.9	92.1	48.8
1.60V/cell	1176.4	1001.4	810.4	615.4	531.4	402.1	322.9	243.2	194.0	162.9	140.4	113.2	93.8	49.7



LP Series-General Purpose LP2-450(2V450Ah)



Applications

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)

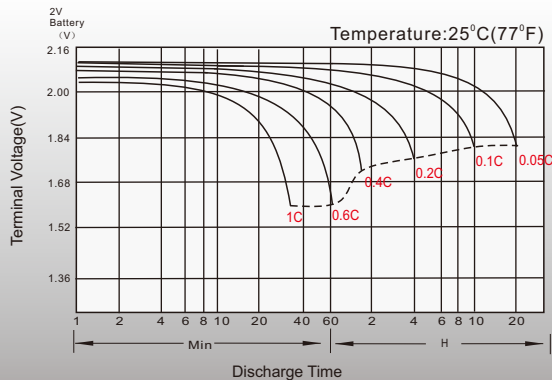
General Features

- 15 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

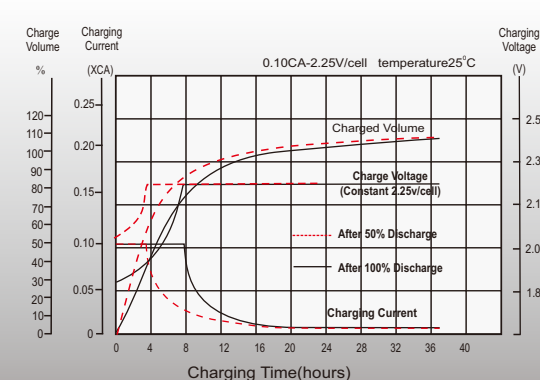
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

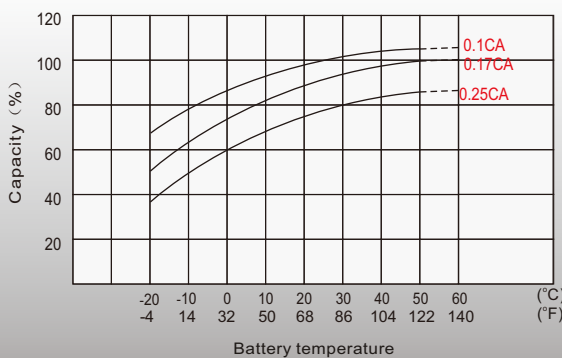
Discharge Characteristics



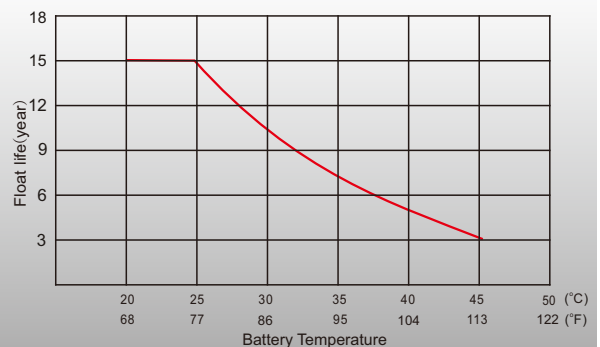
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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