



LP Series-General Purpose LP2-150(2V150Ah)

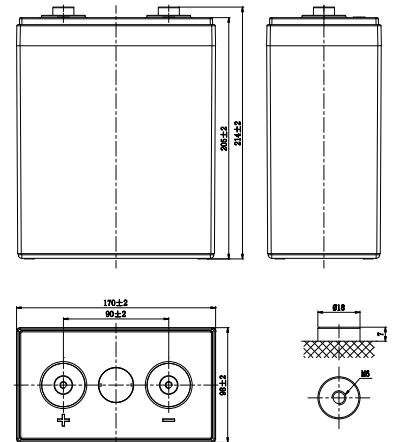


Specifications

Rated Voltage	2V	
Nominal Capacity	150.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	98±2mm (3.86 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	8.4 Kg (18.5 lbs)	
Terminal	M6	
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)
	133.0 Ah	(5hr, 26.6A, 1.75V/cell)
	115.2 Ah	(3hr, 38.4A, 1.75V/cell)
	96.5 Ah	(1hr, 96.5A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 0.9mΩ	
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 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 45.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	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	175.1	137.7	123.2	93.0	78.4	52.9	44.7	35.5	29.0	24.8	22.3	17.5	14.0	7.36
1.80V/cell	198.4	155.7	137.3	98.5	83.0	55.9	47.1	37.5	30.3	25.7	23.1	17.9	15.0	7.88
1.75V/cell	214.8	168.1	143.2	102.1	88.1	59.3	49.2	38.4	31.5	26.6	23.8	18.2	15.2	7.99
1.70V/cell	228.1	178.2	145.0	104.1	92.1	61.9	51.0	39.6	32.2	27.0	24.2	18.5	15.4	8.07
1.67V/cell	234.8	183.1	147.2	105.7	95.4	64.0	52.6	40.7	33.0	27.5	24.6	18.8	15.5	8.15
1.60V/cell	242.1	187.8	149.5	107.2	96.5	65.7	53.5	41.5	33.4	27.9	24.9	19.0	15.7	8.23

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	331.5	261.9	225.8	178.8	125.9	96.0	79.0	60.3	49.6	45.4	40.2	29.9	25.0	13.1
1.80V/cell	370.8	293.0	251.6	188.2	135.4	103.4	85.3	64.6	52.4	48.0	42.3	30.9	25.4	13.3
1.75V/cell	395.8	312.7	262.6	193.8	142.4	108.0	88.6	66.6	54.1	49.6	43.5	31.3	25.7	13.5
1.70V/cell	416.1	328.7	265.9	196.3	148.8	111.7	90.8	68.4	55.6	50.6	44.2	31.6	26.0	13.6
1.67V/cell	422.8	334.0	270.0	198.1	155.3	115.7	93.4	70.4	57.0	51.1	44.7	31.9	26.3	13.8
1.60V/cell	428.8	338.7	274.0	199.1	161.5	119.3	95.4	71.8	57.7	51.8	45.4	32.4	26.7	14.0



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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)

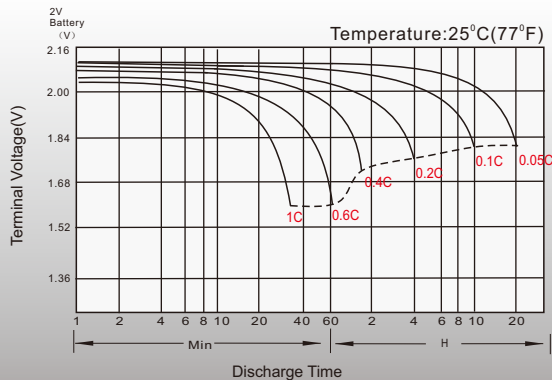
General Features

- 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

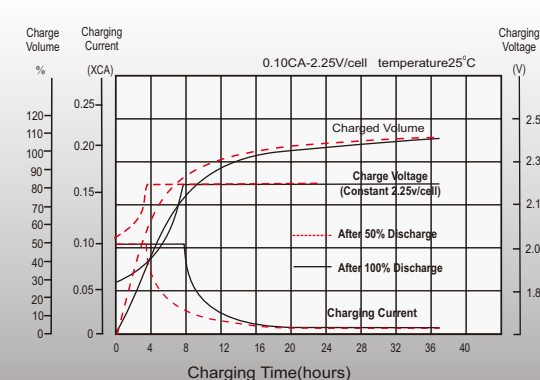
Standards

- 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

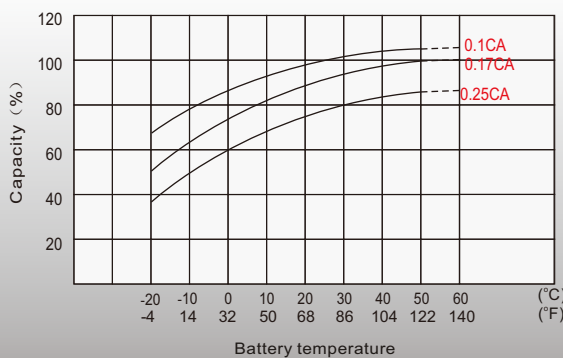
Discharge Characteristics



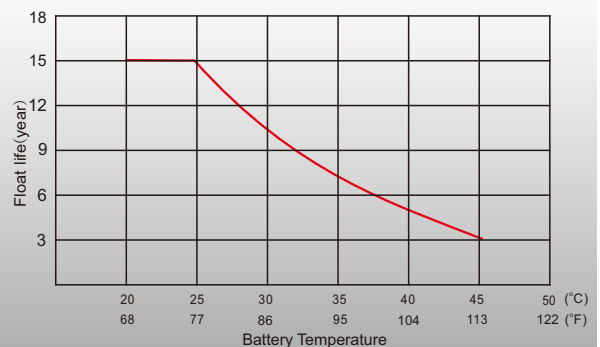
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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