



LP Series-General Purpose LP12-80(12V80Ah)

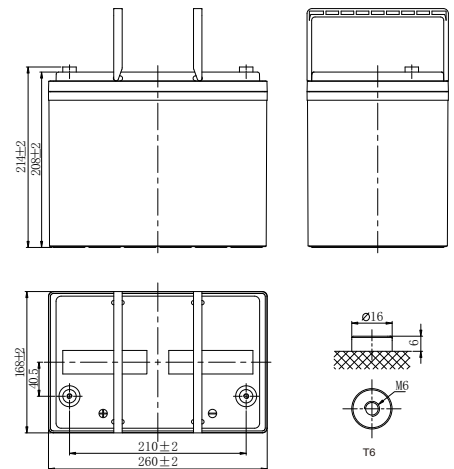


Specifications

Rated Voltage	12V	
Nominal Capacity	80.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	260±2mm (10.2 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±2mm (8.19 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	23.8 Kg (52.36 lbs)	
Terminal	T6(M6)	
Container Material	ABS	
Rated Capacity (25°C)	85.6Ah	(20hr, 4.28A, 1.80V/cell)
	80.0Ah	(10hr, 8.00A, 1.80V/cell)
	74.5Ah	(5hr, 14.9A, 1.75V/cell)
	67.5Ah	(3hr, 22.5A, 1.75V/cell)
	52.0Ah	(1hr, 52.0A, 1.60V/cell)
Max. Discharge Current	800A (5s)	
Internal Resistance (25°C)	Approx 6.2mΩ	
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 24.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 24.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	162.8	115.7	104.7	82.3	73.6	53.8	45.6	33.0	27.8	20.4	16.0	13.9	12.2	9.40	7.79	4.13
1.80V/cell	185.1	131.4	118.6	93.1	80.1	57.0	47.2	34.2	28.7	22.1	17.1	14.6	13.1	9.89	8.00	4.28
1.75V/cell	201.1	142.5	128.4	100.5	81.8	59.0	49.5	35.9	30.2	22.5	17.4	14.9	13.2	9.95	8.24	4.33
1.70V/cell	215.0	151.9	136.4	106.5	83.4	60.2	50.5	36.6	30.8	23.0	17.7	15.1	13.3	10.1	8.32	4.37
1.67V/cell	222.5	156.7	140.4	109.4	84.6	61.1	51.3	37.2	31.2	23.2	18.0	15.4	13.4	10.2	8.43	4.43
1.60V/cell	230.4	162.1	144.7	112.2	85.9	62.0	52.0	37.7	31.7	23.4	18.2	15.6	13.4	10.4	8.53	4.48

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304.0	217.8	198.2	156.6	140.6	101.3	88.2	64.1	54.0	39.8	31.4	27.3	24.1	18.7	15.5	8.23
1.80V/cell	340.1	243.6	221.7	175.1	151.9	106.6	90.8	65.9	55.5	43.0	33.4	28.6	25.8	19.6	16.2	8.52
1.75V/cell	363.0	260.0	236.6	186.9	153.8	109.8	94.9	69.0	58.2	43.7	33.9	29.0	25.9	19.6	16.3	8.59
1.70V/cell	381.6	273.3	248.7	196.5	155.6	111.2	96.3	70.1	59.1	44.4	34.3	29.4	26.0	19.9	16.5	8.67
1.67V/cell	387.8	277.8	252.8	199.7	156.7	112.2	97.1	70.7	59.7	44.6	34.7	29.9	26.1	20.1	16.7	8.77
1.60V/cell	393.2	281.6	256.3	202.5	157.4	112.8	97.9	71.3	60.2	44.8	35.0	30.2	26.2	20.4	16.8	8.86



LP Series-General Purpose LP12-80(12V80Ah)



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

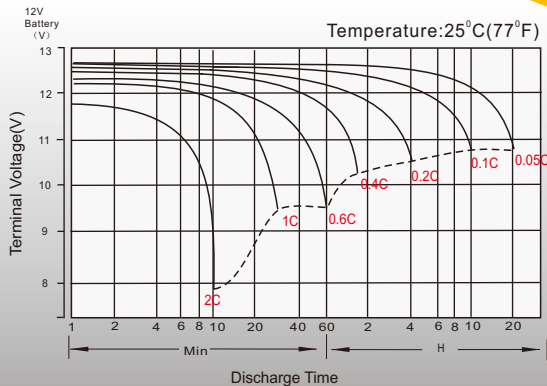
General Features

- 10 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

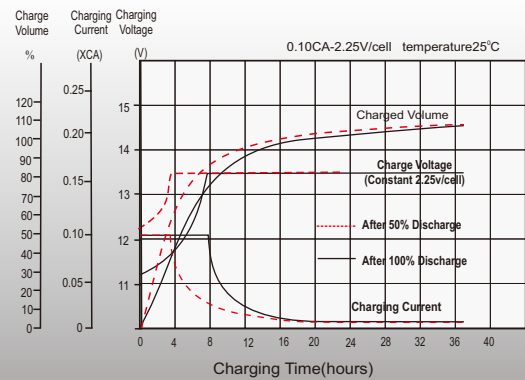
Standards

- 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

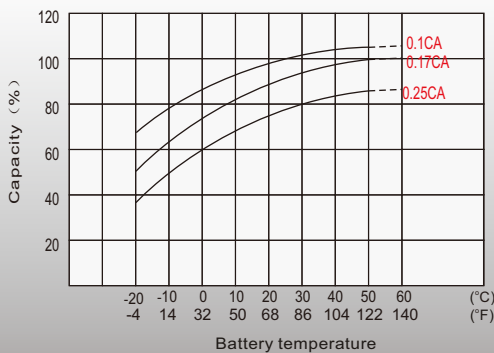
Discharge Characteristics



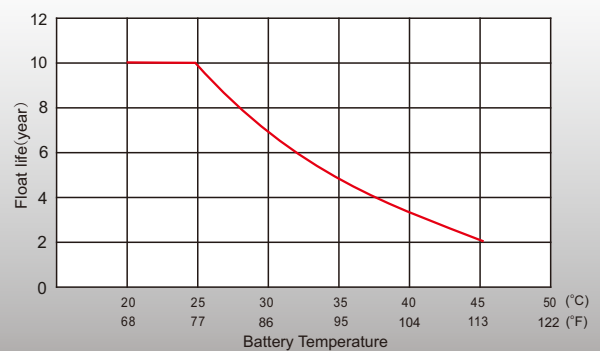
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Charging Temperature on Long Term Float Life



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