



# LP Series-General Purpose LP12-65(12V65Ah)

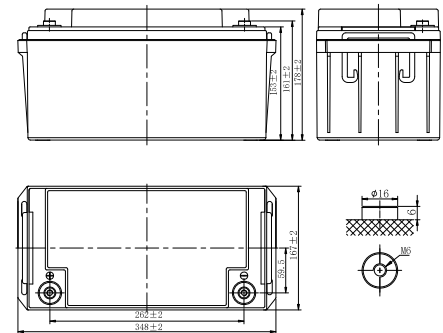


## Specifications

Rated Voltage	12V	
Nominal Capacity	65.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	348±2mm (13.7 inches)
	Width	167±2mm (6.57 inches)
	Container Height	178±2mm (7.01 inches)
	Total Height	178±2mm (7.01 inches)
Approx Weight	19.2 Kg (42.3 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	69.0 Ah	(20hr, 3.45A, 1.80V/cell)
	65.0 Ah	(10hr, 6.50A, 1.80V/cell)
	55.7Ah	(5hr, 11.4A, 1.75V/cell)
	51.6 Ah	(3hr, 17.2A, 1.75V/cell)
	43.6 Ah	(1hr, 43.6A, 1.60V/cell)
Max. Discharge Current	650A (5s)	
Internal Resistance (25°C)	Approx 7.0mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 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 19.5A. 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 19.5A. 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	135.3	101.0	84.1	70.7	54.3	40.5	34.2	25.7	20.6	15.5	12.4	10.3	8.96	7.29	6.09	3.27
1.80V/cell	157.7	119.1	97.8	81.4	61.4	45.3	37.9	28.1	22.4	16.8	13.3	11.1	9.61	7.80	6.50	3.45
1.75V/cell	172.1	127.7	103.5	85.5	64.2	47.2	39.3	29.0	23.1	17.2	13.7	11.4	9.82	7.94	6.60	3.49
1.70V/cell	186.4	136.2	109.4	89.9	67.0	49.0	40.7	30.0	23.8	17.7	14.0	11.6	10.00	8.08	6.70	3.53
1.67V/cell	194.6	141.2	112.8	92.5	68.7	50.1	41.6	30.6	24.2	18.0	14.2	11.8	10.20	8.17	6.76	3.56
1.60V/cell	214.5	152.8	120.9	98.5	72.6	52.7	43.6	31.9	25.2	18.7	14.7	12.1	10.40	8.36	6.91	3.62

## 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	257.0	193.3	161.6	136.2	105.0	78.6	66.6	50.1	40.2	30.4	24.3	20.3	17.7	14.4	12.1	6.49
1.80V/cell	295.1	225.2	186.0	155.4	117.7	87.3	73.2	54.5	43.5	32.8	26.1	21.8	18.9	15.4	12.8	6.84
1.75V/cell	317.1	238.6	194.7	161.5	122.0	90.1	75.3	56.0	44.6	33.5	26.6	22.3	19.3	15.6	13.0	6.93
1.70V/cell	337.8	251.1	203.4	168.3	126.2	92.8	77.6	57.5	45.8	34.3	27.2	22.7	19.6	15.9	13.2	7.01
1.67V/cell	349.4	258.3	210.4	171.9	128.7	94.4	78.8	58.3	46.4	34.7	27.5	22.9	19.8	16.0	13.3	7.06
1.60V/cell	375.4	273.8	219.5	180.2	134.2	98.2	81.9	60.4	48.0	35.8	28.3	23.5	20.3	16.3	13.6	7.17



# LP Series-General Purpose LP12-65(12V65Ah)



## 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

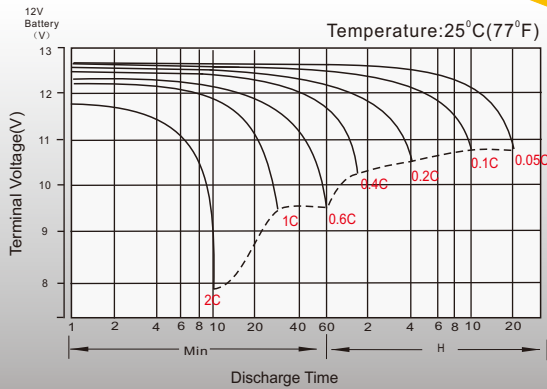
## General Features

- 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

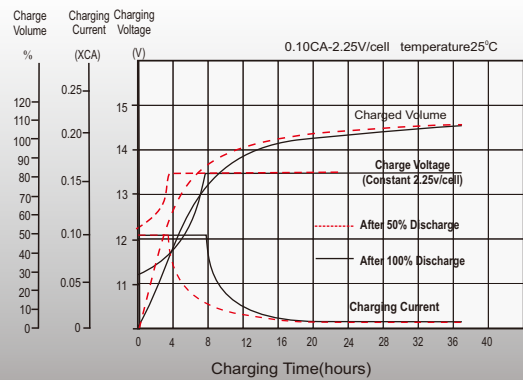
## Standards

- 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

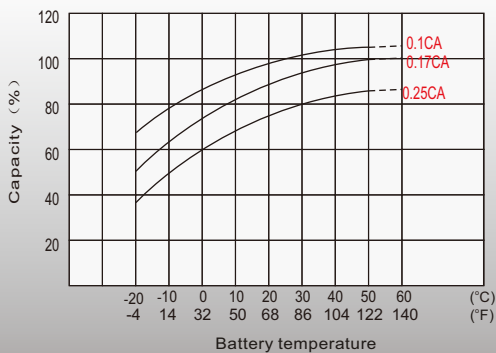
## Discharge Characteristics



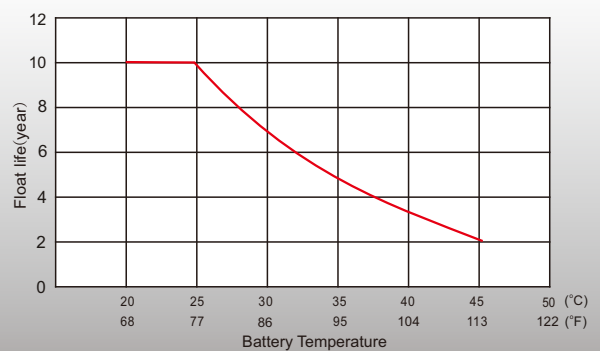
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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