



LPL Series-Long Life Standby LPL12-90H(12V90Ah)

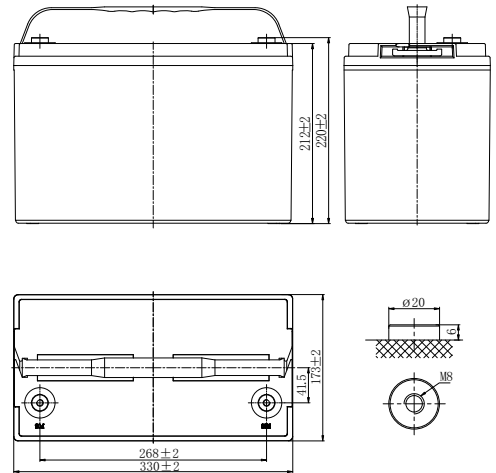


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	90Ah
Dimension	Length	330±2mm (13.0 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height	220±2mm (8.66 inches)
Approx Weight	29.5kg (65.0 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	94.6 Ah	C20(4.73A, 1.80V/cell)
	90.0 Ah	C10(9.00A, 1.80V/cell)
	77.5 Ah	C5(15.5A, 1.75V/cell)
	70.5 Ah	C3(23.5A, 1.75V/cell)
	53.1 Ah	C1(53.1A, 1.60V/cell)
Max. Discharge Current	900A (5s)	
Internal Resistance(25°C)	Approx 5.5mΩ	
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)	
Standby Use	Initial Charging Current less than 27A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 27A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 27A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LPL 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

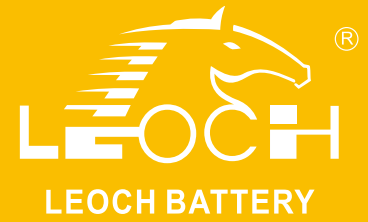


Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	177.9	126.5	109.7	72.1	53.8	46.5	34.4	28.9	21.2	16.7	14.5	12.7	9.80	8.60	4.56
1.80V/cell	202.3	143.6	124.3	78.5	57.0	48.2	35.6	29.9	23.0	17.8	15.2	13.7	10.3	9.00	4.73
1.75V/cell	219.7	155.7	134.5	80.1	59.1	50.6	37.4	31.5	23.5	18.1	15.5	13.8	10.4	9.09	4.77
1.70V/cell	234.9	166.0	142.9	81.7	60.3	51.6	38.2	32.1	23.9	18.4	15.7	13.9	10.5	9.18	4.82
1.65V/cell	243.1	171.3	147.1	82.9	61.1	52.4	38.7	32.6	24.2	18.7	16.0	13.9	10.7	9.30	4.88
1.60V/cell	251.7	177.1	151.6	84.1	62.0	53.1	39.3	33.0	24.4	18.9	16.3	14.0	10.8	9.41	4.94

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

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	332.2	238.0	207.6	137.7	103.5	90.0	66.8	56.3	41.5	32.7	28.5	25.2	19.4	17.1	9.08
1.80V/cell	371.6	266.2	232.3	148.7	108.9	92.7	68.7	57.8	44.8	34.7	29.8	26.9	20.4	17.9	9.39
1.75V/cell	396.6	284.1	247.9	150.6	112.2	96.9	71.9	60.6	45.6	35.3	30.2	27.1	20.4	18.0	9.48
1.70V/cell	417.0	298.7	260.6	152.3	113.6	98.3	73.0	61.6	46.3	35.8	30.6	27.2	20.7	18.2	9.56
1.65V/cell	423.8	303.5	264.9	153.4	114.7	99.2	73.7	62.2	46.5	36.2	31.2	27.2	21.0	18.4	9.67
1.60V/cell	429.7	307.8	268.6	154.1	115.2	99.9	74.3	62.7	46.7	36.4	31.5	27.3	21.2	18.6	9.77



LPL Series-Long Life Standby LPL12-90H(12V90Ah)

Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

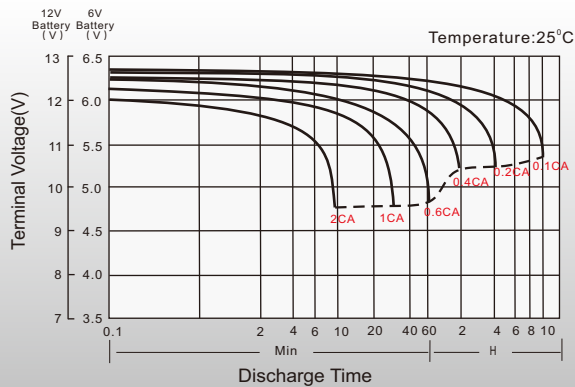
General Features

- 10 years design life(25°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

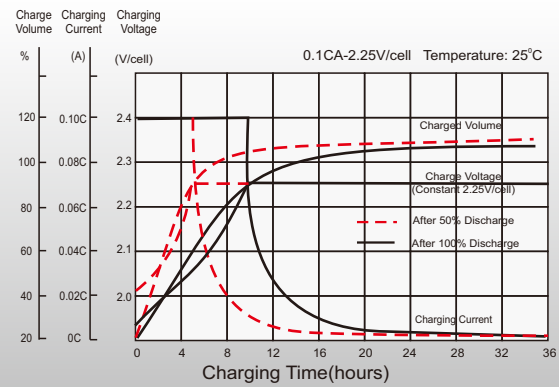
Standards

- 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

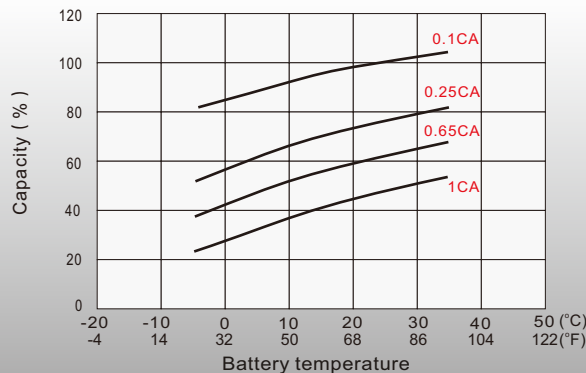
Discharge Characteristics



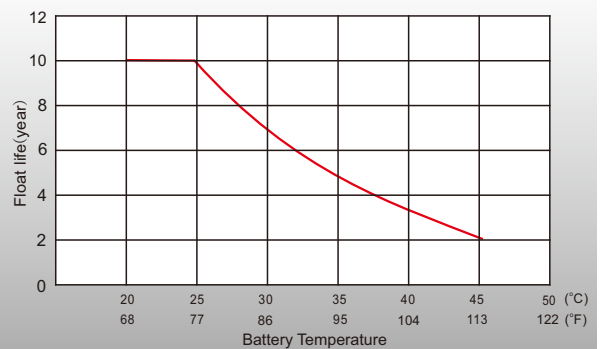
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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