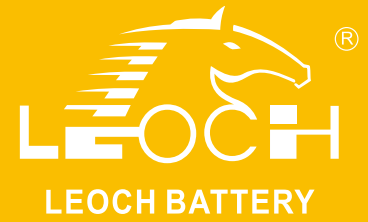




LPL Series-Long Life Standby LPL12-55(12V55Ah)

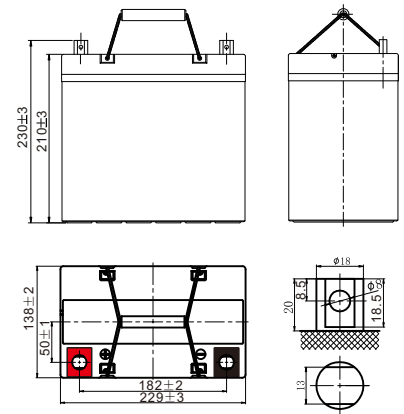


Specifications

Rated Voltage	12V	
Nominal Capacity	55.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	228±3mm (8.98 inches)
	Width	137±2mm (5.39 inches)
	Container Height	210±3mm (8.27 inches)
	Total Height	230±3mm (9.06 inches)
Approx Weight	17.7 Kg (39.03 lbs)	
Terminal	T9	
Container Material	ABS	
Rated Capacity (25°C)	59.0 Ah	(20hr, 2.95A, 1.80V/cell)
	55.0 Ah	(10hr, 5.50A, 1.80V/cell)
	51.0 Ah	(5hr, 10.2A, 1.75V/cell)
	46.5 Ah	(3hr, 15.5A, 1.75V/cell)
	35.8 Ah	(1hr, 35.8A, 1.60V/cell)
Max. Discharge Current	660A (5s)	
Internal Resistance (25°C)	Approx 7.5mΩ	
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 16.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 16.5A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 16.5A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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)

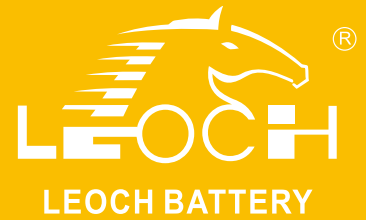
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.0	72.0	56.6	50.6	37.0	31.3	19.1	14.0	11.0	9.54	8.41	6.47	5.36	2.84
1.80V/cell	94.2	81.5	64.0	55.1	39.2	32.5	19.7	15.2	11.7	10.0	9.03	6.80	5.50	2.95
1.75V/cell	102.2	88.3	69.1	56.2	40.6	34.1	20.8	15.5	12.0	10.2	9.10	6.84	5.67	2.97
1.70V/cell	108.9	93.8	73.2	57.3	41.4	34.7	21.2	15.8	12.2	10.4	9.15	6.94	5.72	3.00
1.65V/cell	112.4	96.5	75.2	58.2	42.0	35.3	21.5	15.9	12.3	10.6	9.19	7.04	5.80	3.04
1.60V/cell	116.2	99.5	77.2	59.0	42.6	35.8	21.8	16.1	12.5	10.7	9.26	7.13	5.86	3.08

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	156.1	136.2	107.6	96.7	71.1	60.6	37.1	27.4	21.6	18.8	16.6	12.8	10.7	5.66
1.80V/cell	174.7	152.4	120.4	104.4	74.9	62.4	38.2	29.6	22.9	19.7	17.8	13.5	11.1	5.86
1.75V/cell	186.4	162.7	128.5	105.8	77.1	65.2	40.0	30.1	23.3	20.0	17.9	13.5	11.2	5.91
1.70V/cell	196.0	171.0	135.1	107.0	78.1	66.2	40.7	30.5	23.6	20.2	17.9	13.7	11.3	5.96
1.65V/cell	199.2	173.8	137.3	107.7	78.8	66.8	41.1	30.7	23.9	20.6	18.0	13.8	11.5	6.03
1.60V/cell	201.9	176.2	139.2	108.2	79.2	67.3	41.4	30.8	24.0	20.8	18.0	14.0	11.6	6.09



LPL Series-Long Life Standby LPL12-55(12V55Ah)



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

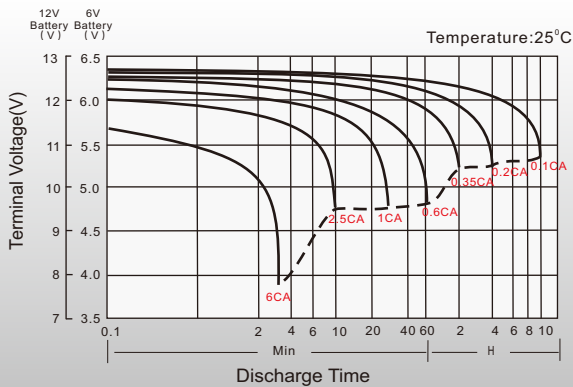
General Features

- 12 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

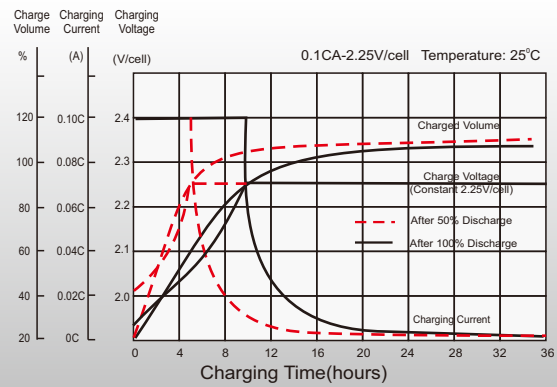
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

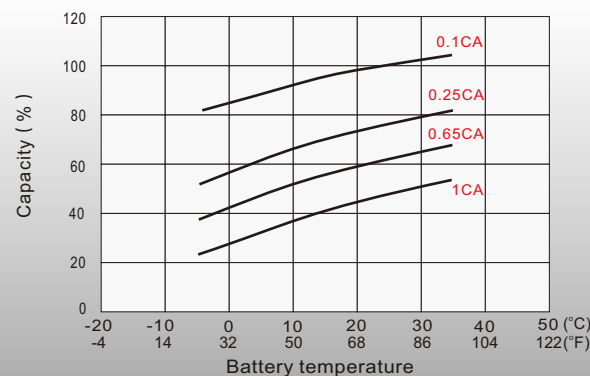
Discharge Characteristics



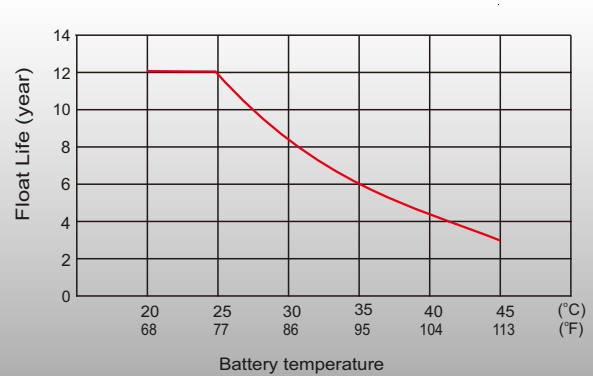
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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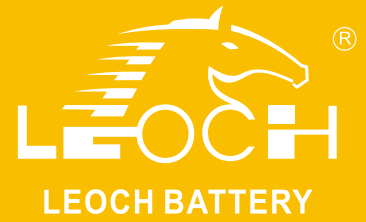
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LPL Series-Long Life Standby LPL12-65(12V65Ah)

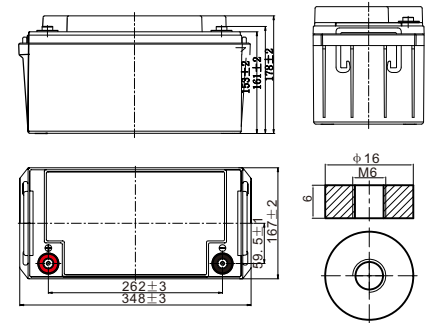


Specifications

Rated Voltage	12V	
Nominal Capacity	65.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	348±3mm (13.70 inches)
	Width	167±2mm (6.57 inches)
	Container Height	178±2mm (7.01 inches)
	Total Height	178±2mm (7.01 inches)
Approx Weight	21.2 Kg (46.75 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	68.2 Ah	(20hr, 3.41A, 1.80V/cell)
	65.0 Ah	(10hr, 6.50A, 1.80V/cell)
	59.0 Ah	(5hr, 11.8A, 1.75V/cell)
	54.0 Ah	(3hr, 18.0A, 1.75V/cell)
	41.4 Ah	(1hr, 41.4A, 1.60V/cell)
Max. Discharge Current	780A (5s)	
Internal Resistance (25°C)	Approx 7.3mΩ	
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%
	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)

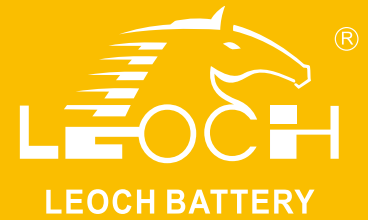
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	96.2	83.4	65.6	58.6	42.9	36.3	22.1	16.2	12.7	11.1	9.74	7.49	6.21	3.29
1.80V/cell	109.2	94.5	74.1	63.8	45.4	37.6	22.8	17.6	13.6	11.6	10.5	7.88	6.50	3.41
1.75V/cell	118.4	102.3	80.0	65.1	47.1	39.5	24.1	18.0	13.8	11.8	10.5	7.92	6.57	3.45
1.70V/cell	126.2	108.6	84.9	66.4	48.0	40.3	24.5	18.3	14.1	12.0	10.6	8.04	6.63	3.48
1.65V/cell	130.2	111.8	87.2	67.4	48.7	40.8	24.9	18.5	14.3	12.3	10.7	8.16	6.71	3.53
1.60V/cell	134.7	115.3	89.4	68.4	49.4	41.4	25.3	18.7	14.5	12.4	10.7	8.26	6.79	3.57

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	180.9	157.9	124.7	112.0	82.4	70.2	43.0	31.7	25.0	21.8	19.3	14.9	12.3	6.56
1.80V/cell	202.4	176.6	139.5	121.0	86.8	72.3	44.2	34.3	26.6	22.8	20.6	15.6	12.9	6.78
1.75V/cell	216.0	188.5	148.9	122.5	89.4	75.6	46.4	34.8	27.0	23.1	20.7	15.6	13.0	6.84
1.70V/cell	227.1	198.1	156.5	123.9	90.5	76.7	47.1	35.4	27.3	23.4	20.8	15.9	13.1	6.91
1.65V/cell	230.7	201.4	159.1	124.8	91.3	77.4	47.6	35.6	27.7	23.8	20.8	16.0	13.3	6.99
1.60V/cell	234.0	204.2	161.3	125.4	91.8	78.0	48.0	35.7	27.9	24.1	20.9	16.2	13.4	7.06



LPL Series-Long Life Standby LPL12-65(12V65Ah)



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

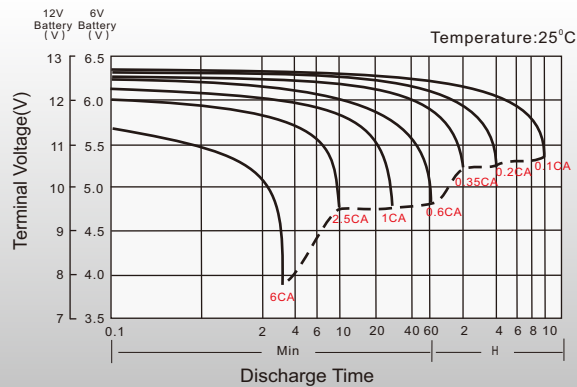
General Features

- 12 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

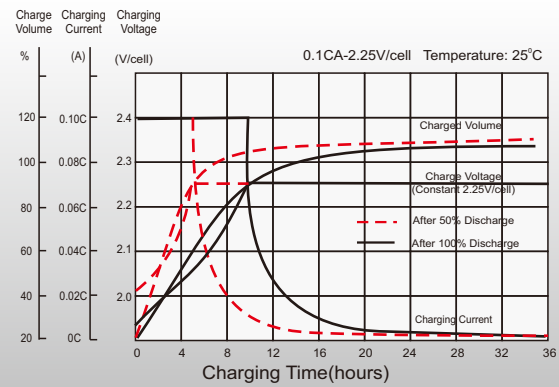
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

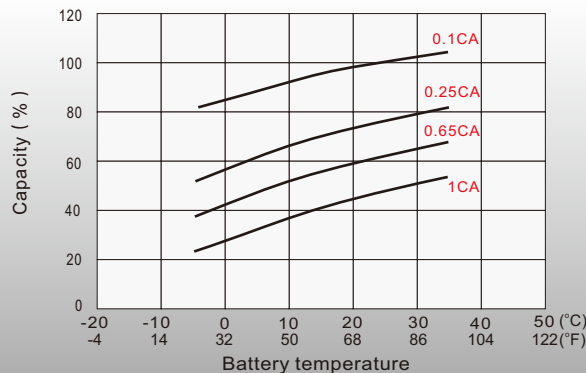
Discharge Characteristics



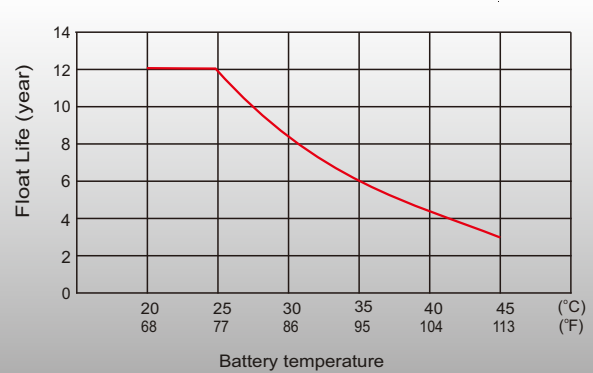
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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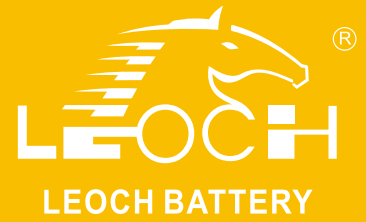
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LPL Series-Long Life Standby LPL12-75(12V75Ah)

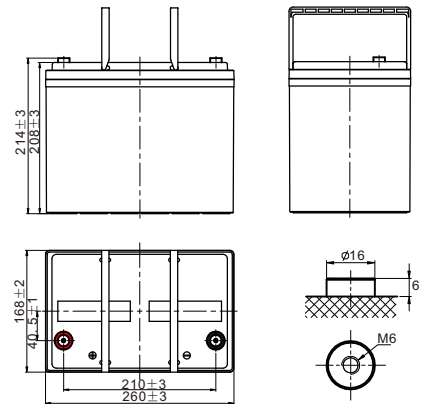


Specifications

Rated Voltage	12V	
Nominal Capacity	75.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	260±3mm (10.24 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±3mm (8.19 inches)
	Total Height	214±3mm (8.43 inches)
Approx Weight	22.7 Kg (50.05 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	78.0 Ah	(20hr, 3.90A, 1.80V/cell)
	75.0 Ah	(10hr, 7.50A, 1.80V/cell)
	67.5 Ah	(5hr, 13.5A, 1.75V/cell)
	61.5 Ah	(3hr, 20.5A, 1.75V/cell)
	47.3 Ah	(1hr, 47.3A, 1.60V/cell)
Max. Discharge Current	900A (5s)	
Internal Resistance (25°C)	Approx 6.6mΩ	
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 22.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 22.5A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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)

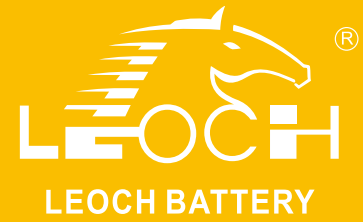
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	109.8	95.2	74.9	67.0	49.0	41.5	25.3	18.5	14.5	12.6	11.1	8.56	7.09	3.76
1.80V/cell	124.7	107.9	84.7	72.9	51.9	43.0	26.1	20.1	15.5	13.3	12.0	9.00	7.50	3.90
1.75V/cell	135.2	116.8	91.4	74.4	53.8	45.1	27.5	20.5	15.8	13.5	12.0	9.05	7.52	3.94
1.70V/cell	144.2	124.1	96.9	75.9	54.8	46.0	28.0	20.9	16.1	13.7	12.1	9.19	7.57	3.98
1.65V/cell	148.7	127.7	99.6	77.0	55.6	46.7	28.4	21.1	16.3	14.0	12.2	9.32	7.67	4.03
1.60V/cell	153.8	131.7	102.1	78.1	56.4	47.3	28.8	21.3	16.5	14.2	12.2	9.44	7.76	4.07

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	206.7	180.3	142.5	128.0	94.2	80.2	49.2	36.2	28.5	24.9	22.0	17.0	14.1	7.49
1.80V/cell	231.2	201.7	159.4	138.2	99.1	82.6	50.5	39.1	30.3	26.0	23.5	17.8	14.7	7.75
1.75V/cell	246.7	215.3	170.1	140.0	102.1	86.3	53.0	39.8	30.8	26.4	23.6	17.9	14.9	7.82
1.70V/cell	259.4	226.3	178.8	141.6	103.4	87.6	53.8	40.4	31.2	26.8	23.7	18.1	15.0	7.89
1.65V/cell	263.6	230.0	181.7	142.6	104.3	88.4	54.4	40.6	31.6	27.2	23.8	18.3	15.2	7.98
1.60V/cell	267.3	233.2	184.2	143.2	104.8	89.0	54.8	40.8	31.8	27.5	23.7	18.5	15.3	8.06



LPL Series-Long Life Standby LPL12-75(12V75Ah)



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

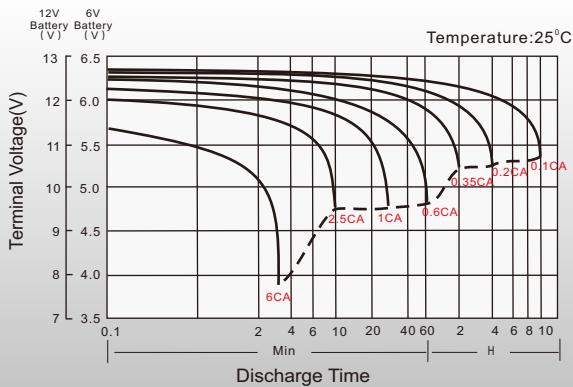
General Features

- 12 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

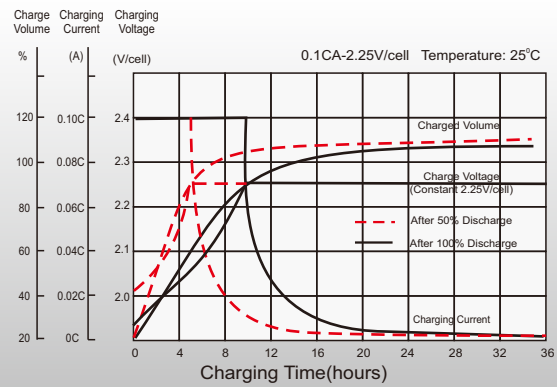
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

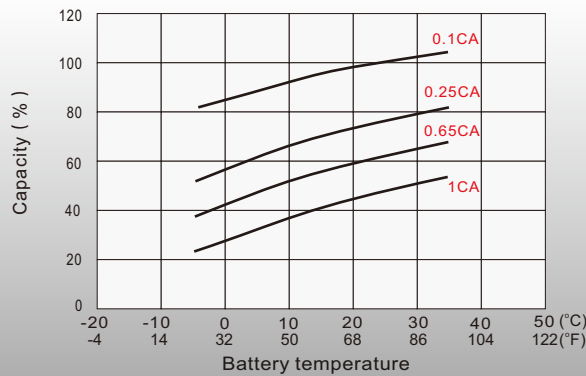
Discharge Characteristics



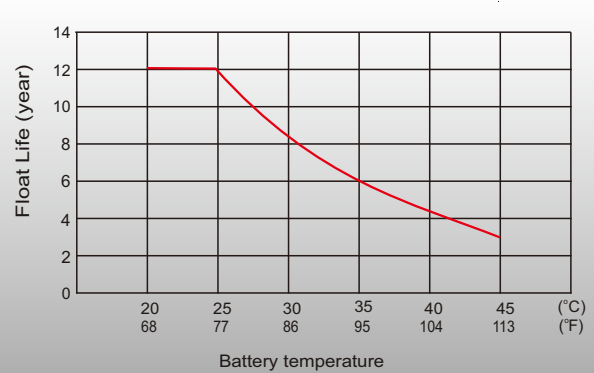
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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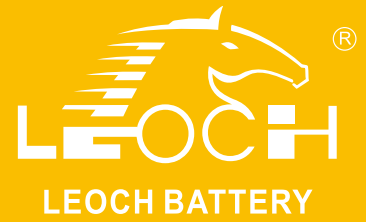
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Publication No.: LB-LPL12-75-PD-EN-V1.1-201904



LPL Series-Long Standby Life LPL12-100(12V100Ah)

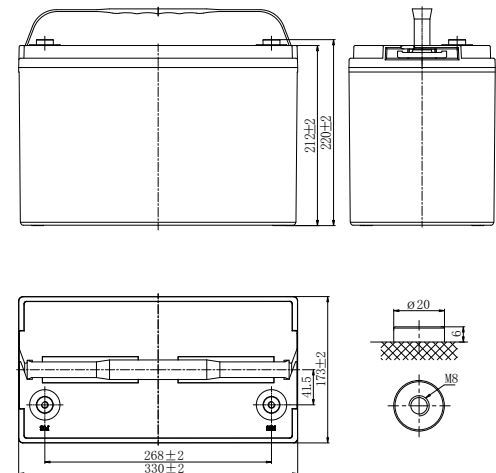


Specifications

Rated Voltage	12V	
Nominal Capacity	100.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	330±2mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height	220±2mm (8.66 inches)
Approx Weight	32.0 Kg (70.56 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	107.0 Ah	(20hr, 5.35A, 1.80V/cell)
	100.0 Ah	(10hr, 10.0A, 1.80V/cell)
	94.5 Ah	(5hr, 18.9A, 1.75V/cell)
	86.1 Ah	(3hr, 28.7A, 1.75V/cell)
	75.7 Ah	(1hr, 75.7A, 1.60V/cell)
Max. Discharge Current	1000A (5s)	
Internal Resistance (25°C)	Approx 4.9mΩ	
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 30.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 30.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 30.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	138.1	124.6	109.3	92.9	69.4	58.5	37.2	26.2	21.2	17.2	15.1	11.3	9.7	5.2
1.80V/cell	176.5	150.5	129.2	103.6	77.8	63.7	40.0	28.2	22.7	18.4	16.2	11.9	10.0	5.4
1.75V/cell	193.9	164.5	139.0	111.4	83.8	68.5	42.0	28.7	23.2	18.9	16.6	12.3	10.3	5.5
1.70V/cell	211.4	175.5	146.0	116.0	87.1	70.8	43.8	29.5	23.8	19.4	16.9	12.8	10.7	5.6
1.65V/cell	228.1	186.6	155.1	122.3	89.3	73.1	44.9	30.8	24.6	19.9	17.3	13.2	11.0	5.8
1.60V/cell	247.7	199.6	165.2	129.1	93.1	75.7	46.5	31.7	25.4	20.6	17.7	13.4	11.2	5.9

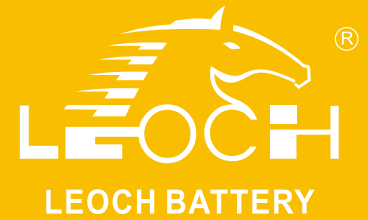
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	257.9	235.0	208.1	178.8	134.8	114.1	72.9	51.6	41.9	34.0	29.9	22.5	19.4	10.3
1.80V/cell	325.7	280.1	242.4	196.5	149.9	123.5	77.9	55.2	44.5	36.3	32.0	23.7	20.0	10.7
1.75V/cell	352.2	302.3	258.3	209.6	160.0	132.3	81.6	56.0	45.5	37.2	32.7	24.4	20.5	11.0
1.70V/cell	375.3	318.2	269.5	217.0	165.8	136.1	84.7	57.5	46.5	38.0	33.4	25.4	21.3	11.2
1.65V/cell	401.4	335.9	284.2	227.0	168.4	139.7	86.7	59.7	47.9	39.0	34.0	26.1	21.9	11.6
1.60V/cell	425.9	353.3	299.4	238.0	174.6	143.9	89.1	61.2	49.3	40.1	34.6	26.4	22.2	11.7



LPL Series-Long Standby Life

LPL12-100(12V100Ah)



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

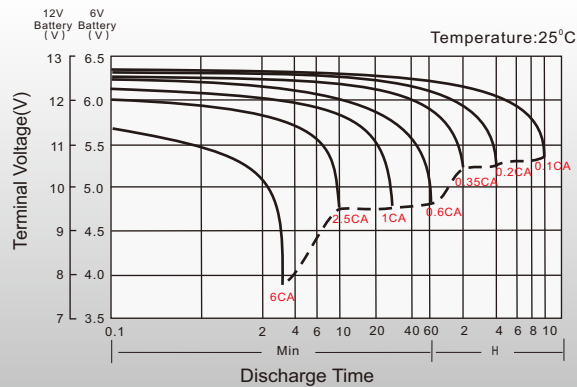
General Features

- 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

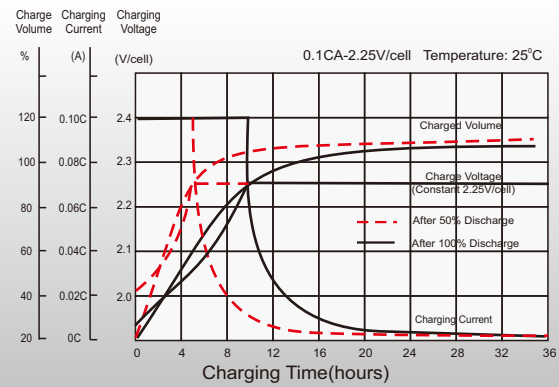
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

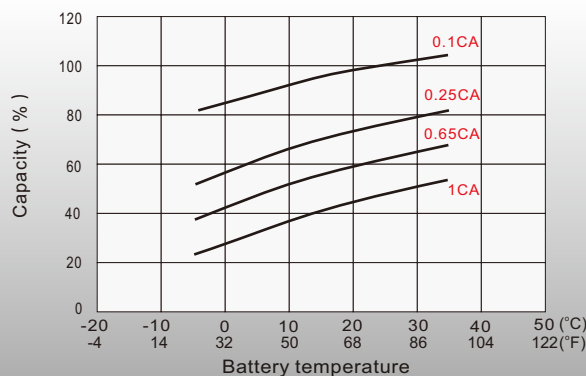
Discharge Characteristics



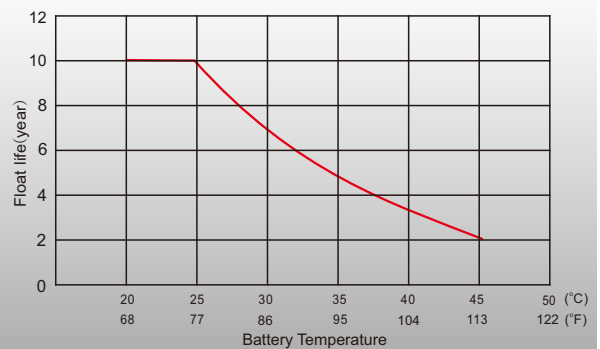
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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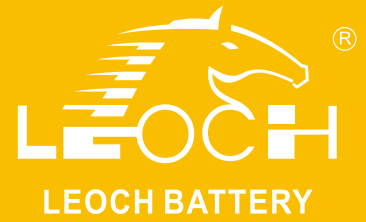
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Publication No.: LB-LPL12-100-PD-EN-V2.0-202004



LPL Series-Long Life Standby LPL12-150(12V150Ah)

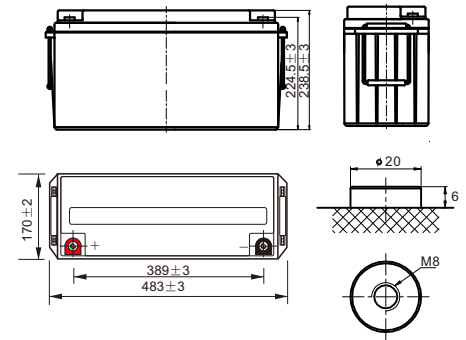


Specifications

Rated Voltage	12V	
Nominal Capacity	150.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	483±3mm (19.02 inches)
	Width	170±2mm (6.69 inches)
	Container Height	238.5±3mm (9.39 inches)
	Total Height	238.5±3mm (9.39 inches)
Approx Weight	47.2 Kg (104.08 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	160.6 Ah	(20hr, 8.03A, 1.80V/cell)
	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	132.5 Ah	(5hr, 26.5A, 1.75V/cell)
	120.6 Ah	(3hr, 40.2A, 1.75V/cell)
	96.7 Ah	(1hr, 96.7A, 1.60V/cell)
Max. Discharge Current	1500A (5s)	
Internal Resistance (25°C)	Approx 3.5mΩ	
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 45.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 45.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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)

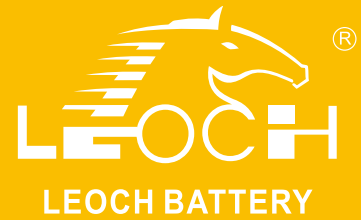
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	190.3	157.9	138.9	114.0	87.6	74.6	48.0	35.9	29.2	24.5	21.3	17.0	14.5	7.76
1.80V/cell	217.8	177.3	153.5	123.9	94.5	78.7	51.6	38.6	31.0	25.9	22.5	17.9	15.0	8.03
1.75V/cell	247.4	199.9	169.6	134.6	103.0	85.8	53.7	40.2	32.0	26.5	23.2	18.5	15.4	8.23
1.70V/cell	279.4	221.8	187.2	146.9	111.0	90.8	56.6	42.3	33.6	28.0	24.3	19.3	16.0	8.44
1.65V/cell	300.0	237.4	199.2	155.1	117.5	93.9	58.7	44.0	34.8	28.9	25.3	19.9	16.4	8.70
1.60V/cell	330.0	260.0	216.3	165.5	122.1	96.7	60.1	45.1	35.6	29.6	25.8	20.3	16.8	8.84

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	355.4	297.9	264.5	219.7	170.1	145.3	94.3	70.8	57.6	48.3	42.3	33.9	29.1	15.5
1.80V/cell	401.9	330.0	288.1	234.9	182.0	152.6	100.7	75.6	60.9	51.1	44.6	35.6	29.9	16.0
1.75V/cell	449.2	367.4	315.4	253.2	196.7	165.6	104.3	78.4	62.8	52.1	45.9	36.7	30.7	16.4
1.70V/cell	496.0	402.0	345.6	274.9	211.1	174.6	109.6	82.3	65.5	54.9	48.0	38.2	31.9	16.8
1.65V/cell	527.8	427.1	364.9	287.8	221.4	179.4	113.0	85.3	67.8	56.5	49.5	39.4	32.7	17.3
1.60V/cell	567.6	460.2	392.1	304.9	228.9	183.8	115.3	87.0	69.2	57.7	50.4	40.0	33.3	17.6



LPL Series-Long Life Standby LPL12-150(12V150Ah)



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

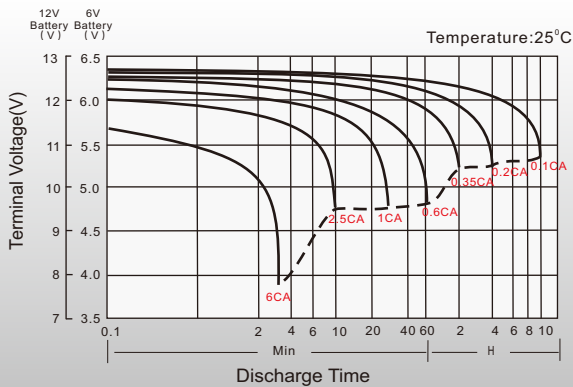
General Features

- 12 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

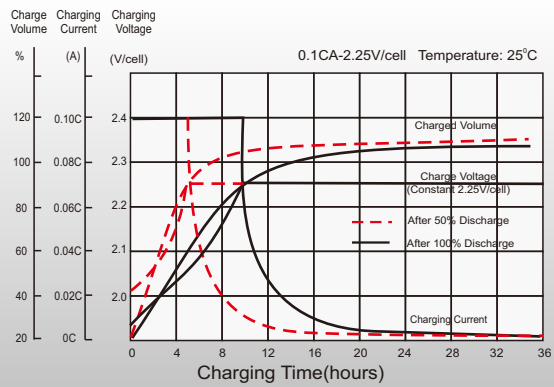
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
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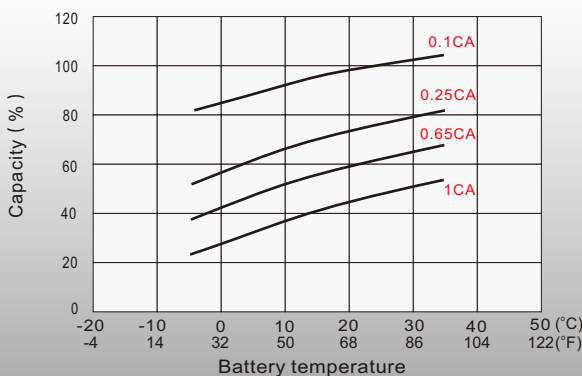
Discharge Characteristics



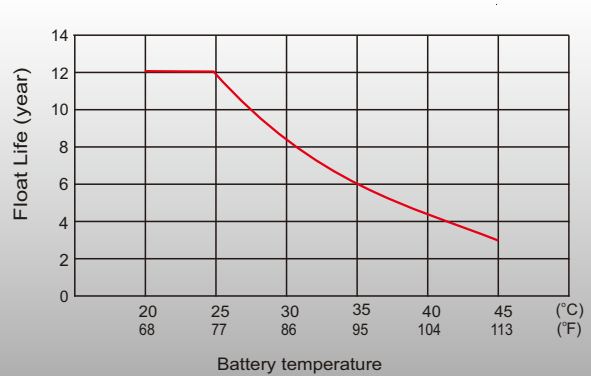
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Effect of Temperature on Long Term Float Life



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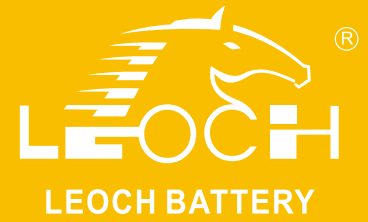
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LPL Series-Long Life Standby LPL12-200(12V200Ah)

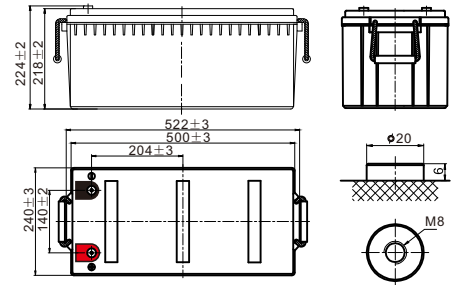


Specifications

Rated Voltage	12V	
Nominal Capacity	200.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	522±3mm (20.55 inches)
	Width	240±3mm (9.45 inches)
	Container Height	218±3mm (8.58 inches)
	Total Height	224±3mm (8.81 inches)
Approx Weight	64.0 Kg (141.12 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	214.0 Ah	(20hr, 10.7A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	189.0 Ah	(5hr, 37.8A, 1.75V/cell)
	177.2 Ah	(3hr, 57.4A, 1.75V/cell)
	156.0 Ah	(1hr, 156.0A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance (25°C)	Approx 2.7mΩ	
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 60.0A. 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 60.0A. 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%
	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

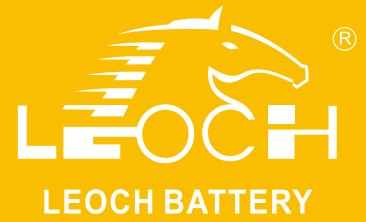


Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	295.6	272.1	233.8	194.9	144.4	120.6	68.8	52.4	42.5	34.3	30.1	22.5	19.4	10.3
1.80V/cell	377.7	328.8	276.4	230.0	168.0	135.0	75.1	56.4	45.3	36.9	32.3	23.7	20.0	10.7
1.75V/cell	415.0	359.1	297.3	238.8	174.3	141.3	77.9	57.4	46.5	37.8	33.2	24.5	20.5	11.0
1.70V/cell	452.4	383.4	312.5	248.5	181.3	145.8	80.9	59.0	47.6	38.8	33.9	25.6	21.3	11.3
1.65V/cell	\	407.7	332.0	262.2	185.8	150.6	83.2	61.5	49.2	39.9	34.6	26.4	21.9	11.6
1.60V/cell	\	436.0	353.6	276.8	193.7	156.0	86.0	63.4	49.8	41.2	35.4	26.9	22.4	11.8

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	552.0	513.2	445.4	375.4	280.5	235.0	135.0	103.2	83.9	68.0	59.8	44.9	38.8	20.6
1.80V/cell	697.1	611.8	518.9	436.3	323.8	261.8	146.3	110.4	89.1	72.7	63.9	47.1	39.9	21.4
1.75V/cell	753.8	660.2	552.8	449.2	332.8	272.7	151.2	112.0	91.0	74.3	65.5	48.6	40.9	22.0
1.70V/cell	803.2	695.1	576.7	465.0	344.8	280.4	156.9	114.9	93.0	76.1	66.7	50.7	42.4	22.5
1.65V/cell	\	733.5	608.2	486.5	350.3	287.7	160.3	119.3	95.8	77.9	68.0	52.2	43.6	23.1
1.60V/cell	\	771.6	640.8	510.1	363.2	296.4	164.9	122.4	96.7	80.3	69.2	53.1	44.5	23.5



LPL Series-Long Life Standby LPL12-200(12V200Ah)

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

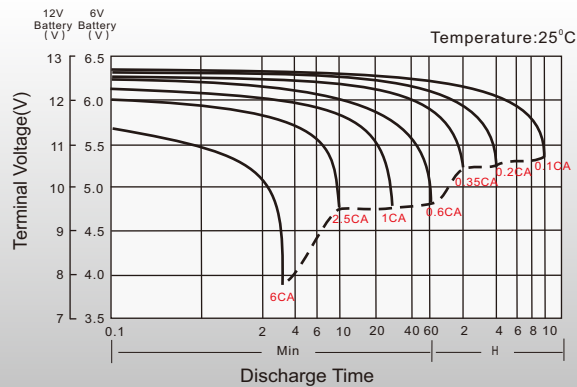
General Features

- 12 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

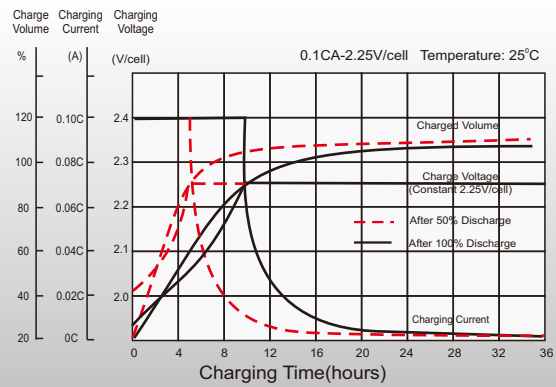
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

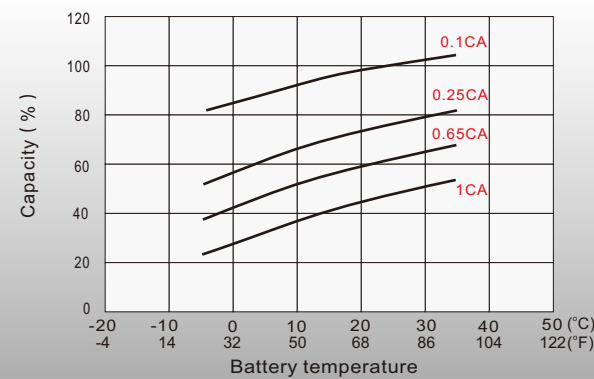
Discharge Characteristics



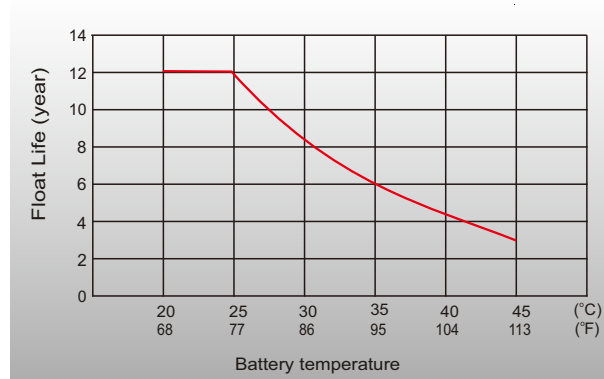
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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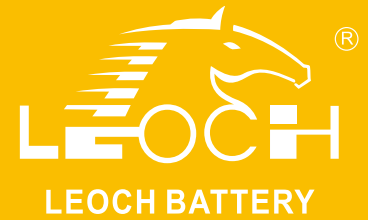
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LPL Series-Long Standby Life

LPL2-1000(2V1000Ah)

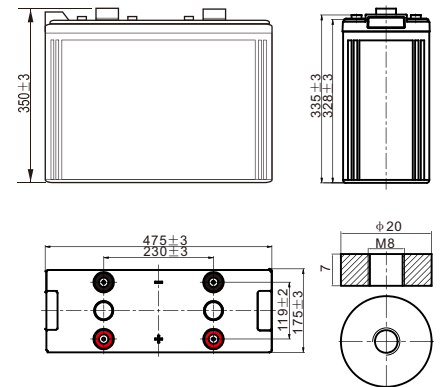


Specifications

Rated Voltage	2V	
Nominal Capacity	1000.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	475±3mm (18.70 inches)
	Width	175±2mm (6.89 inches)
	Container Height	328±3mm (12.91 inches)
	Total Height	350±3mm (13.78 inches)
Approx Weight	61.8 Kg (136.3 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1060.0 Ah	(20hr, 53.0A, 1.80V/cell)
	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	875.0 Ah	(5hr, 175.0A, 1.75V/cell)
	780.0 Ah	(3hr, 260.0A, 1.75V/cell)
	629.2 Ah	(1hr, 629.2A, 1.60V/cell)
Max. Discharge Current	8000A (5s)	
Internal Resistance (25°C)	Approx 0.45mΩ	
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 300.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 300.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 300.0A. 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	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)

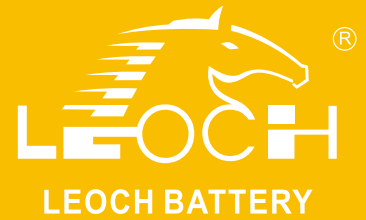
F. V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	713.9	604.0	494.0	307.7	234.1	188.3	158.9	137.9	112.1	93.7	50.2
1.80V/cell	807.1	676.9	546.7	334.7	253.2	202.9	171.1	147.9	120.0	100.0	53.0
1.75V/cell	843.5	705.2	566.9	345.0	260.0	208.0	175.0	151.0	122.2	101.6	53.7
1.70V/cell	900.7	744.2	587.7	356.0	267.6	213.2	179.0	154.3	124.4	103.1	54.4
1.65V/cell	963.0	781.5	600.0	362.0	271.6	216.2	181.2	156.1	125.6	104.0	54.8
1.60V/cell	974.0	801.6	629.2	377.0	281.6	223.4	186.8	160.5	128.6	106.3	55.7

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

F. V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1379.7	1170.0	960.2	601.3	458.9	370.0	312.7	271.9	221.5	185.4	99.9
1.80V/cell	1546.8	1301.2	1055.5	650.9	494.5	397.4	335.8	290.9	236.6	197.6	105.3
1.75V/cell	1603.0	1344.9	1086.8	667.2	505.5	405.8	342.4	296.2	240.5	200.3	106.6
1.70V/cell	1696.1	1407.5	1118.9	684.9	517.9	414.6	349.2	301.8	244.2	203.1	107.8
1.65V/cell	1795.9	1466.4	1136.8	693.9	524.2	419.3	352.8	304.8	246.4	204.7	108.6
1.60V/cell	1800.8	1490.9	1180.9	717.5	540.4	431.1	362.0	312.1	251.5	208.5	110.4



LPL Series-Long Standby Life LPL2-1000(2V1000Ah)



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)
- EPS

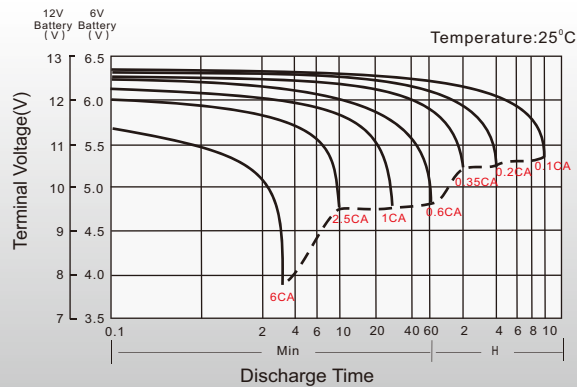
General Features

- 16 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

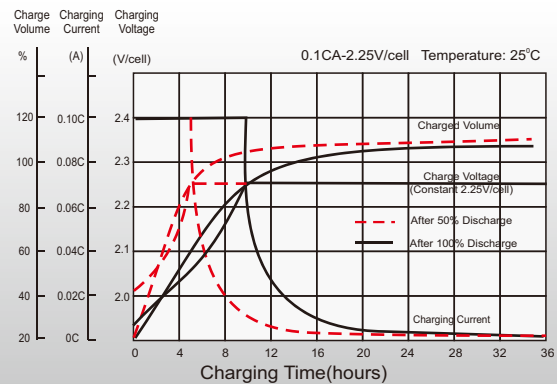
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

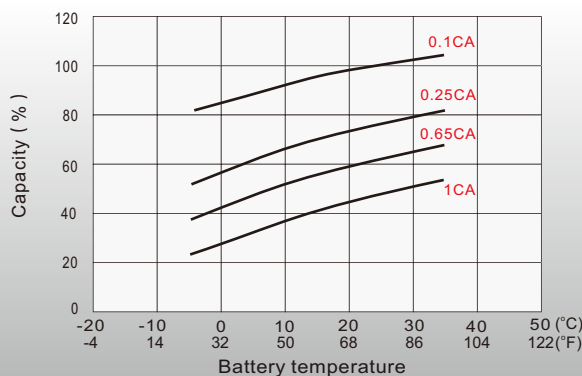
Discharge Characteristics



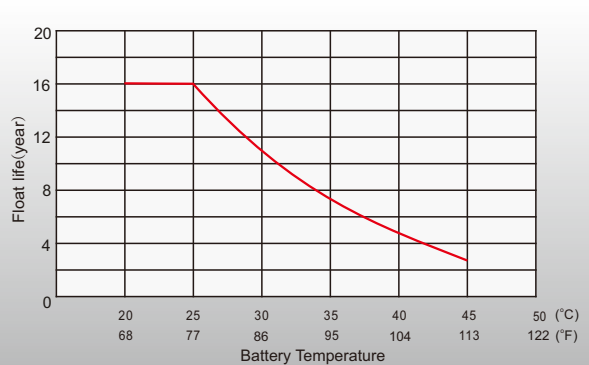
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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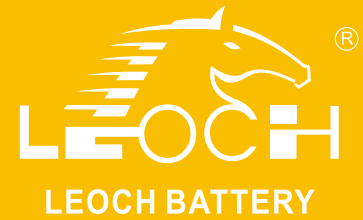
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Publication No.: LB-LPL2-1000-PD-EN-V2.2-201909



LPL Series-Long Standby Life LPL2-1500(2V1500Ah)

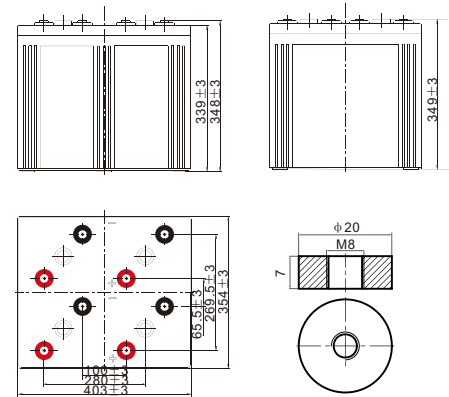


Specifications

Rated Voltage	2V	
Nominal Capacity	1500.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	403±3mm (15.87 inches)
	Width	354±3mm (13.94 inches)
	Container Height	339±3mm (13.35 inches)
	Total Height	349±3mm (13.74 inches)
Approx Weight	96.0 Kg (211.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1600.0 Ah	(20hr, 80.0A, 1.80V/cell)
	1500.0 Ah	(10hr, 150.0A, 1.80V/cell)
	1331.0 Ah	(5hr, 266.2A, 1.75V/cell)
	1158.0 Ah	(3hr, 386.0A, 1.75V/cell)
	901.0 Ah	(1hr, 901.0A, 1.60V/cell)
Max. Discharge Current	12000A (5s)	
Internal Resistance (25°C)	Approx 0.30mΩ	
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 450.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 450.0A. 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	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)

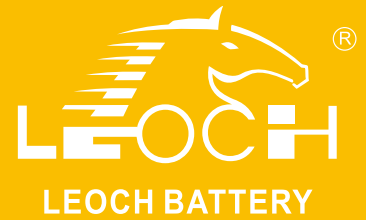
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1125.5	902.4	752.4	466.5	356.0	291.1	247.9	216.5	173.3	144.5	77.3
1.80V/cell	1207.7	949.4	786.8	487.5	373.5	304.1	258.3	226.2	180.8	150.0	80.0
1.75V/cell	1278.9	998.3	820.9	507.0	386.0	314.4	266.2	231.5	184.3	152.0	80.4
1.70V/cell	1341.9	1035.9	849.7	527.3	398.0	321.3	270.8	235.6	187.5	153.8	81.3
1.65V/cell	1407.6	1081.0	880.2	544.5	407.0	328.2	276.6	239.7	190.3	155.6	82.1
1.60V/cell	1455.8	1110.1	901.0	555.0	414.0	332.8	280.6	243.0	193.1	157.8	82.7

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2151.0	1735.0	1455.4	907.4	695.7	570.9	488.3	427.8	343.8	287.3	153.9
1.80V/cell	2289.4	1813.4	1513.4	943.7	726.5	594.4	506.5	445.1	357.6	297.9	159.1
1.75V/cell	2406.0	1895.5	1572.1	977.5	748.8	612.5	520.4	454.3	363.8	301.4	159.6
1.70V/cell	2503.3	1953.3	1618.6	1012.3	769.2	623.3	527.8	461.6	369.8	304.8	161.3
1.65V/cell	2606.3	2026.9	1667.3	1041.0	783.1	634.5	537.2	468.1	374.3	307.8	162.8
1.60V/cell	2668.6	2061.9	1694.7	1054.5	792.5	640.6	542.8	473.2	379.1	311.8	163.7



LPL Series-Long Standby Life LPL2-1500(2V1500Ah)



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)
- EPS

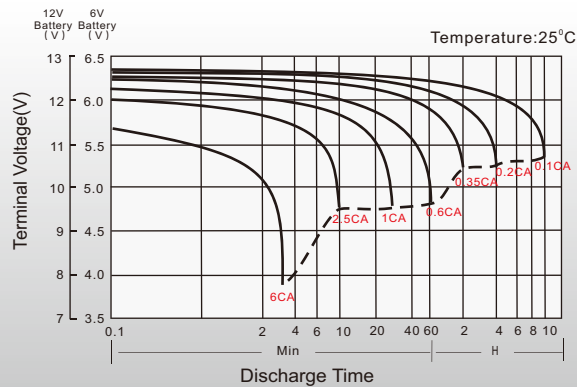
General Features

- 16 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

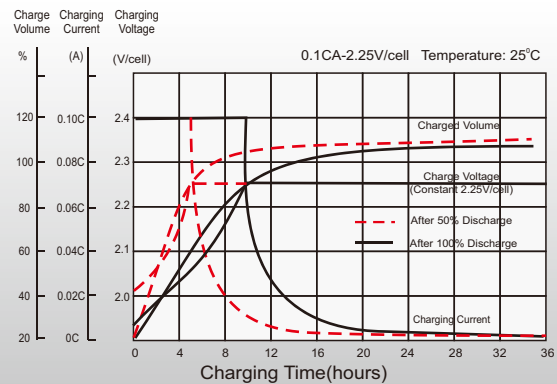
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
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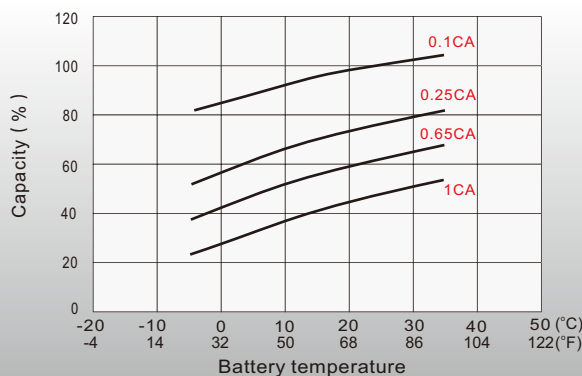
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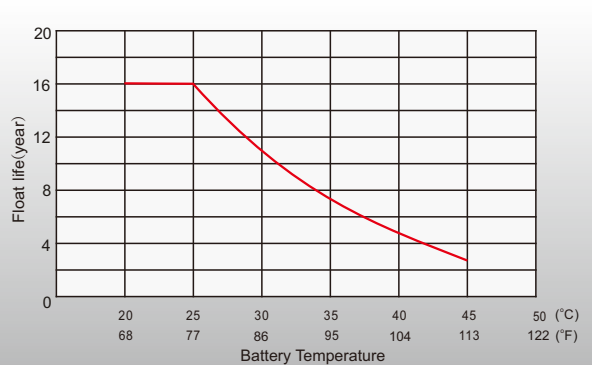
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Effect of Temperature on Long Term Float Life



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