

TS16949 ISO14001 ISO9001 OHSAS18001



LEOCH UPS VRLA BATTERY

● HIGH POWER-LCP SERIES

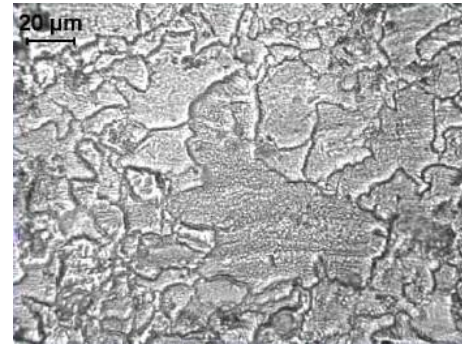
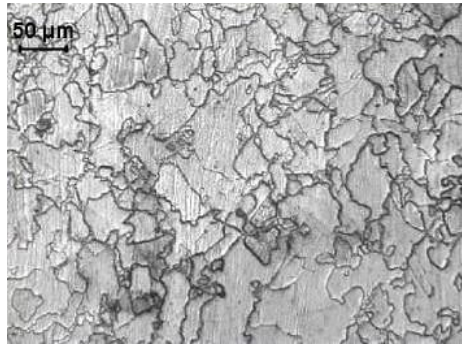
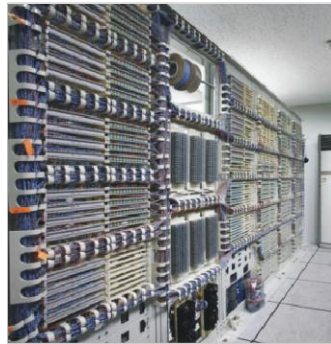
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Leoch International Technology Limited

LCP Series Batteries use the most advanced technology of fast punched thin plate (FPTP) for punching grid batteries. Compared to traditional technology, FPTP has higher speed, simplified technology, more energy efficient, environmentally friendly, and higher consistency of product. Overall, this technology is a mechanized and automatic process, which reduces 30% lead consumption and saves 40% more energy. This process is encouraged by the Energy Saving and Emission Reduction Policies international.

LCP Series



General Features

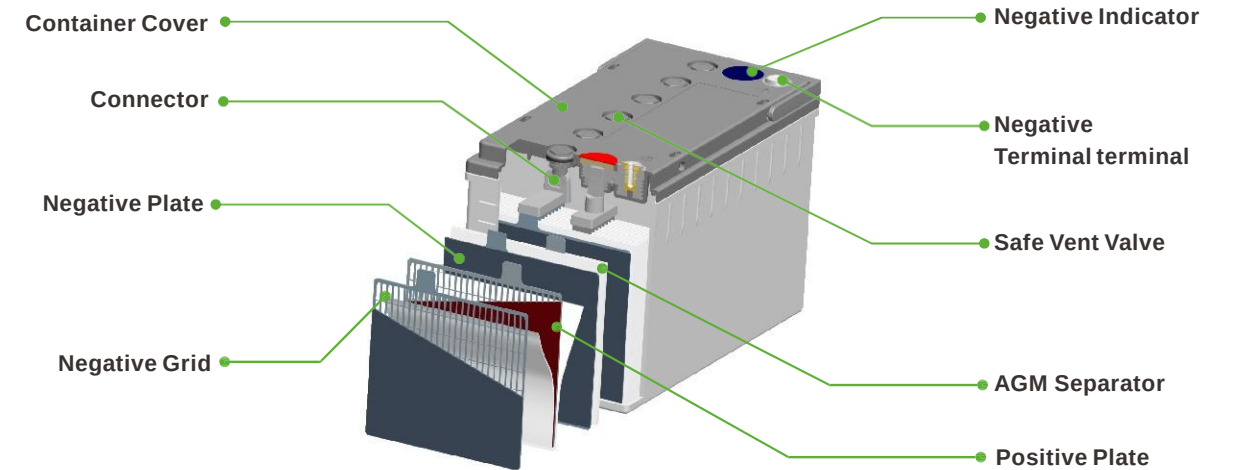
- Valve Regulated Lead Acid (VRLA) Battery, Maintenance Free
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- 3D structure: optimized design for pasting and active material adherence. Thin grid and plate offers more surface area for high power delivery
- Special paste formula, TTP welding make sure excellent power capability (W/15Mr raise 20% up)
- ABS material for container: UL94-HB. (Flame-retardant ABS is optional: UL94-V0)
- Unique vent valve design: control water losing, prevent air and spark going inside
- oxygen-combination efficiency ≥98%
- Wide temperature: -15 ~ 50°C
- Design life: LCP Series 12 years;
- LCP series, special grid & plate manufacture technology, automatic manufacture line, raise battery life & uniformity;

Application

- UPS (High rate)
- Hospitals & Testing Laboratories
- Emergency power supply
- Industrial Process Control Facilities
- Banks & Financial Markets
- Date & Network Operations Centers



Battery Constructure



- ISO 9001
- ISO 14001
- ISO/ TS 16949
- OHSAS 18001
- IEC60896-21/22
- BS6290-4
- UL924 and UI1989
- VDS2344:2005-12(06)
- Bellcore 4228
- Eurobat Guide
- Telcordia SR-4228

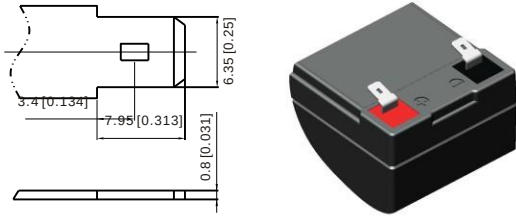
LCP Series Specification

Model	Rated Voltage(V)	Capacity C (AH)	Power 15min(W)	Dimension/mm				Terminal	Weight/Kg
				Length	Width	Height	Total Height		
				mm	mm	mm	mm		
LCP12-24	12	6.5	24	151	65	93.5	99	T2	2.02
LCP12-26	12	7	26	151	65	93.5	99	T2	2.15
LCP12-30	12	7	30	151	65	93.5	99	T2	2.24
LCP12-34	12	7.5	34	151	65	93.5	99	T2	2.35
LCP12-38	12	7.5	38	151	65	93.5	99	T2	2.50
LCP12-80	12	18	81	181.5	77	166.5	166.5	T12	5.80
LCP12-90	12	20	90	181.5	77	166.5	166.5	T12	6.35
LCP12-135	12	38	135	197	165	170	170	M6	11.4
LCP12-225	12	65	225	348	167	178	178	M6	19.2
LCP12-300	12	80	300	260	168	208	214	M6	24.2
LCP12-350	12	90	350	306	168	207	214	M6	27.8
LCP12-400	12	100	400	330	173	213	216	M6	30.2
LCP12-450	12	100	450	330	173	213	216	M6	31.2
LCP12-700	12	220	720	522	240	218	224	T11	64.0
LCP12-800	12	250	820	522	268	220	226	T11	73.0

Dimensions&Terminal Options

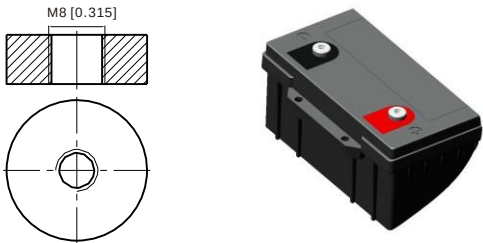
T2 Terminal

FASTON TYPE (Copper) quick disconnect tabs;
silver coating for better conductivity



T11 Terminal

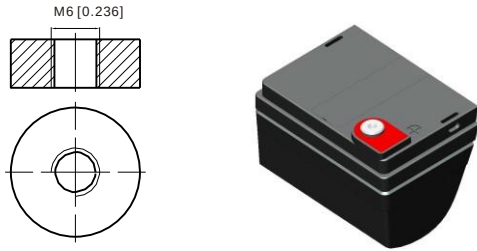
Brass Coated With Tin; Threaded Insert 8mm STUD
Torque: 11~14.7 N*m



Note: the figures below just show the appearance and dimension. For the positioning on each battery model, please check the specification

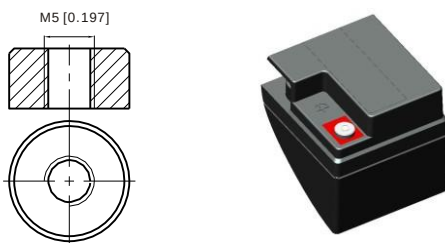
T6 Terminal

Brass Coated With Tin; Threaded Insert 6mm STUD
Torque: 3.9 ~ 5.4 N*m



T12 Terminal

Brass Coated With Tin; Threaded Insert 5mm STUD
Torque: 2.0 ~ 3.0 N*m



Discharge Performance

Constant Current Discharge Performance

Constant Current Discharge Rate, amps to 1.85V/Cell at 25°C(77°F)

Time Model	Minutes							Hours									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	17.6	12.9	10.9	9.59	8.84	7.48	5.33	4.18	3.17	2.38	1.71	1.34	1.11	0.95	0.745	0.613	0.332
LCP12-26	19.0	13.9	11.8	10.3	9.52	8.05	5.74	4.50	3.41	2.56	1.84	1.44	1.19	1.02	0.802	0.661	0.357
LCP12-30	24.4	16.4	13.3	11.2	9.52	8.19	5.83	4.57	3.41	2.56	1.84	1.44	1.19	1.02	0.802	0.661	0.357
LCP12-34	25.9	17.6	14.4	12.1	10.2	8.68	6.07	4.71	3.65	2.59	1.89	1.51	1.27	1.10	0.859	0.707	0.383
LCP12-38	26.1	17.0	14.0	12.0	10.2	8.68	6.07	4.71	3.65	2.59	1.89	1.51	1.27	1.10	0.859	0.707	0.383
LCP12-80	50.1	37.9	31.9	26.8	22.6	19.6	14.1	11.1	7.85	6.23	4.55	3.63	3.04	2.63	2.06	1.70	0.92
LCP12-90	55.4	41.2	35.2	29.8	25.2	21.8	15.7	12.3	8.71	6.92	5.02	4.01	3.38	2.91	2.29	1.89	1.03
LCP12-135	76.8	59.2	52.4	48.3	43.9	40.0	30.0	24.3	17.6	14.1	9.91	7.84	6.52	5.62	4.45	3.72	1.94
LCP12-225	131.4	102.5	90.1	82.6	75.7	68.5	51.3	41.5	30.5	24.2	16.9	13.4	11.1	9.61	7.66	6.37	5.42
LCP12-300	167.4	130.6	110.3	95.0	79.6	69.3	49.8	39.3	28.4	23.0	17.2	14.3	12.4	11.1	9.30	7.85	4.06
LCP12-350	170.6	139.3	119.2	100.4	85.6	75.8	56.5	45.5	33.5	27.5	20.9	17.1	14.5	12.6	10.2	8.58	4.66
LCP12-400	175.9	165.0	152.0	133.2	116.1	101.0	72.4	56.7	40.5	32.3	23.8	19.4	16.5	14.5	11.8	9.74	5.27
LCP12-450	231.0	201.6	178.0	148.8	125.4	106.6	74.6	57.8	40.9	32.5	24.0	19.7	16.8	14.7	11.8	9.81	5.27
LCP12-700	382.8	322.1	297.4	268.0	229.4	198.4	144.9	116.2	84.9	69.3	52.3	42.9	36.5	31.9	25.8	21.5	11.6
LCP12-800	435.0	369.0	334.0	300.8	258.2	229.9	167.3	132.0	96.5	78.8	59.4	48.8	41.5	36.3	29.3	24.4	13.2

Constant Power Discharge Rate, watts to 1.85V/Cell at 25°C (77°F)

Time Model	Minutes							Hour S									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	33.2	24.7	21.2	18.7	17.3	14.7	10.6	8.36	6.35	4.78	3.45	2.71	2.25	1.93	1.52	1.26	0.68
LCP12-26	35.8	26.6	22.8	20.1	18.6	15.9	11.4	9.00	6.84	5.15	3.72	2.92	2.42	2.08	1.64	1.35	0.73
LCP12-30	46.1	31.4	25.7	21.8	18.6	16.1	11.6	9.14	6.84	5.15	3.72	2.92	2.42	2.08	1.64	1.35	0.73
LCP12-34	48.9	33.6	27.8	23.6	20.0	17.1	12.1	9.43	7.33	5.21	3.82	3.06	2.57	2.23	1.76	1.45	0.79
LCP12-38	49.4	32.5	27.1	23.4	20.0	17.1	12.1	9.43	7.33	5.21	3.82	3.06	2.57	2.23	1.76	1.45	0.79
LCP12-80	93.8	72.2	61.5	52.2	44.3	38.6	28.0	22.2	15.7	12.5	9.18	7.35	6.18	5.36	4.22	3.48	1.90
LCP12-90	103.8	78.4	67.9	58.1	49.3	42.9	31.1	24.6	17.5	13.9	10.1	8.11	6.86	5.93	4.68	3.87	2.11
LCP12-135	149.5	115.9	103.0	95.5	20.8	19.0	14.3	11.5	8.4	28.3	20.0	15.9	13.3	11.5	9.11	7.66	4.01
LCP12-225	255.7	200.5	177.3	163.4	150.1	136.2	102.4	83.2	61.3	48.6	34.1	27.2	22.7	19.6	15.7	13.1	11.2
LCP12-300	314.0	248.8	212.9	185.0	155.8	136.5	98.9	78.6	57.0	46.2	34.7	28.9	25.3	22.7	19.0	16.1	8.3
LCP12-350	327.4	269.6	232.0	196.5	168.2	149.4	112.5	90.9	67.2	55.3	42.2	34.7	29.5	25.7	20.9	17.6	9.6
LCP12-400	331.0	314.3	293.3	259.6	227.4	198.9	143.8	113.4	81.1	64.9	48.0	39.3	33.5	29.5	24.0	20.0	10.8
LCP12-450	436.6	385.3	343.7	290.0	245.7	209.9	148.3	115.6	82.1	65.3	48.3	39.8	34.1	29.9	24.1	20.1	10.8
LCP12-700	717.8	613.5	574.0	522.2	449.3	390.6	287.9	232.3	170.3	139.3	105.5	87.0	74.2	65.0	52.7	44.0	23.8
LCP12-800	815.6	702.9	644.6	586.1	505.9	452.7	332.4	264.0	193.5	158.3	119.9	98.8	84.3	73.9	59.8	50.0	27.1

Constant Current Discharge Rate, amps to 1.80V/Cell at 25°C (77°F)

LCP12-24	18.7	13.7	11.5	10.0	9.30	7.92	5.67	4.43	3.38	2.47	1.77	1.39	1.15	0.99	0.784	0.650	0.345
LCP12-26	20.1	14.8	12.4	10.8	10.0	8.53	6.10	4.77	3.64	2.66	1.91	1.50	1.24	1.07	0.844	0.700	0.371
LCP12-30	26.9	17.5	13.9	11.8	10.0	8.62	6.10	4.77	3.64	2.66	1.91	1.50	1.24	1.07	0.844	0.700	0.371
LCP12-34	28.7	19.3	15.5	13.3	11.1	9.41	6.54	5.03	3.90	2.77	2.00	1.59	1.33	1.15	0.904	0.750	0.398
LCP12-38	28.8	18.9	15.8	13.3	11.1	9.41	6.54	5.03	3.90	2.77	2.00	1.59	1.33	1.15	0.904	0.750	0.398
LCP12-80	58.2	42.2	35.1	29.5	24.6	21.2	15.2	11.9	8.41	6.65	4.81	3.81	3.19	2.75	2.17	1.80	0.95
LCP12-90	63.4	46.7	39.0	32.7	27.3	23.6	16.8	13.1	9.25	7.31	5.29	4.23	3.54	3.06	2.41	2.00	1.06
LCP12-135	88.2	65.3	57.5	52.1	46.6	42.2	31.1	25.0	18.2	14.5	10.2	8.1	6.7	5.78	4.57	3.80	1.98
LCP12-225	149.2	113.7	98.1	89.1	80.3	72.2	53.2	42.9	31.5	24.8	17.4	13.8	11.5	9.89	7.82	6.50	5.52
LCP12-300	190.8	148.0	122.4	103.7	86.3	74.7	53.9	42.5	30.5	24.6	18.3	15.0	13.0	11.6	9.55	8.00	4.10
LCP12-350	194.5	160.4	139.6	114.6	96.4	84.2	61.7	49.1	36.2	29.8	22.4	18.2	15.4	13.4	10.7	9.00	4.79
LCP12-400	209.6	188.4	167.6	144.6	123.8	107.2	76.8	60.3	42.8	34.0	24.9	20.2	17.1	15.0	12.1	10.0	5.32
LCP12-450	263.9	223.9	197.6	163.2	135.7	115.0	79.3	61.4	43.1	34.0	24.9	20.3	17.3	15.1	12.0	10.0	5.32
LCP12-700	454.1	363.1	323.8	287.8	244.7	211.6	153.1	122.9	89.7	73.0	54.6	44.7	37.9	32.9	26.4	22.0	11.7
LCP12-800	516.0	409.7	363.0	322.5	274.5	242.5	175.7	139.7	101.9	83.0	62.0	50.8	43.1	37.4	30.0	25.0	13.3

Constant Power Discharge Rate, watts to 1.80V/Cell at 25°C (77°F)

Time Model	Minutes							Hour									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	34.8	26.0	22.1	19.3	18.1	15.5	11.2	8.81	6.75	4.94	3.57	2.81	2.33	2.02	1.60	1.33	0.71
LCP12-26	37.5	28.0	23.8	20.8	19.5	16.7	12.1	9.49	7.27	5.32	3.84	3.02	2.51	2.17	1.72	1.43	0.76
LCP12-30	50.2	33.1	26.7	22.8	19.5	16.9	12.1	9.49	7.27	5.32	3.84	3.02	2.51	2.17	1.72	1.43	0.76
LCP12-34	53.5	36.5	29.7	25.6	21.5	18.4	12.9	10.0	7.79	5.55	4.03	3.20	2.69	2.33	1.84	1.53	0.82
LCP12-38	53.7	35.8	30.3	25.6	21.5	18.4	12.9	10.0	7.79	5.55	4.03	3.20	2.69	2.33	1.84	1.53	0.82
LCP12-80	107.6	79.5	67.1	56.9	47.9	41.5	30.1	23.8	16.8	13.3	9.67	7.69	6.45	5.59	4.42	3.68	1.96
LCP12-90	117.4	87.9	74.6	63.2	53.1	46.1	33.2	26.1	18.5	14.6	10.7	8.54	7.17	6.21	4.91	4.09	2.18
LCP12-135	169.7	126.5	111.8	102.0	23.6	21.4	15.7	12.7	9.2	29.0	20.5	16.3	13.6	11.7	9.32	7.78	4.07
LCP12-225	287.3	220.1	191.1	174.5	157.6	142.2	105.3	85.4	62.8	49.6	35.0	27.9	23.2	20.1	15.9	13.3	11.3
LCP12-300	355.5	280.0	235.0	201.0	168.1	146.3	106.6	84.5	61.0	49.2	36.7	30.3	26.3	23.6	19.5	16.4	8.4
LCP12-350	369.8	307.9	270.0	222.9	188.1	165.0	122.1	97.7	72.4	59.7	45.2	36.7	31.2	27.1	21.8	18.4	9.8
LCP12-400	390.1	354.6	320.2	279.2	240.8	209.9	151.8	120.1	85.5	68.1	50.1	40.8	34.6	30.5	24.6	20.5	10.9
LCP12-450	492.9	423.2	377.5	315.2	264.1	225.1	157.0	122.3	86.2	68.1	50.1	41.0	35.1	30.7	24.5	20.5	10.9
LCP12-700	840.0	683.5	618.6	555.7	475.9	414.4	302.7	244.8	179.1	146.3	109.8	90.3	76.8	66.9	53.8	45.0	24.1
LCP12-800	954.6	771.0	693.4	622.7	533.8	474.9	347.3	278.2	203.5	166.3	124.8	102.6	87.2	76.0	61.1	51.2	27.3

● Constant Power Discharge Rate, watts to 1.75V/Cell at 25°C (77°F)

Time Model	Minutes							Hours									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	37.4	27.3	22.8	20.2	18.8	16.2	11.6	9.10	7.00	5.08	3.64	2.86	2.38	2.05	1.61	1.34	0.71
LCP12-26	40.3	29.4	24.5	21.7	20.3	17.5	12.5	9.80	7.54	5.47	3.92	3.09	2.56	2.21	1.74	1.44	0.77
LCP12-30	53.2	34.6	28.1	23.8	20.3	17.6	12.5	9.80	7.54	5.47	3.92	3.09	2.56	2.21	1.74	1.44	0.77
LCP12-34	57.2	38.7	31.8	27.0	22.7	19.3	13.5	10.4	8.08	5.71	4.13	3.28	2.74	2.36	1.86	1.55	0.82
LCP12-38	58.0	39.3	33.1	27.4	22.7	19.3	13.5	10.4	8.08	5.71	4.13	3.28	2.74	2.36	1.86	1.55	0.82
LCP12-80	119.6	86.0	72.2	59.9	50.4	43.4	31.2	24.7	17.4	13.7	9.92	7.88	6.58	5.67	4.47	3.71	1.98
LCP12-90	130.7	95.1	80.3	66.5	55.8	48.3	34.6	27.1	19.1	15.1	10.9	8.75	7.31	6.30	4.97	4.13	2.20
LCP12-135	191.1	140.6	120.6	107.2	26.2	23.4	17.2	13.7	9.9	29.4	21.0	16.6	13.8	12.0	9.46	7.88	4.12
LCP12-225	319.5	240.6	203.9	183.3	163.5	147.0	108.2	87.1	63.7	50.4	35.6	28.3	23.7	20.4	16.2	13.5	11.5
LCP12-300	396.3	309.0	257.2	216.5	180.2	156.1	112.5	89.3	64.0	51.4	38.0	30.9	26.9	23.9	19.8	16.5	8.5
LCP12-350	410.8	348.1	296.0	241.0	201.9	175.9	128.8	102.8	75.6	62.0	46.6	37.9	32.2	27.8	22.3	18.6	9.9
LCP12-400	436.5	388.8	349.1	297.6	252.9	219.2	157.7	124.8	88.4	70.3	51.7	41.9	35.6	31.0	24.8	20.6	11.0
LCP12-450	551.9	461.0	405.8	336.3	278.3	236.7	164.9	128.0	90.2	71.3	51.9	42.2	36.0	31.3	24.9	20.6	11.0
LCP12-700	976.3	759.5	668.3	591.7	506.3	439.5	320.2	258.8	187.8	152.4	113.9	93.3	79.1	68.4	54.7	45.4	24.3
LCP12-800	1071.2	832.5	738.1	652.3	560.3	499.4	366.5	294.1	213.4	173.1	129.5	106.0	89.9	77.8	62.1	51.6	27.6

● Constant Current Discharge Rate, amps to 1.70V/Cell at 25°C (77°F)

Time Model	Minutes							Hours									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	21.9	15.4	12.5	10.9	10.2	8.72	6.14	4.78	3.64	2.65	1.86	1.45	1.20	1.03	0.806	0.663	0.351
LCP12-26	23.6	16.6	13.5	11.8	10.9	9.39	6.62	5.15	3.92	2.85	2.01	1.57	1.30	1.11	0.868	0.714	0.378
LCP12-30	30.7	19.7	15.6	13.0	10.9	9.39	6.62	5.15	3.92	2.85	2.01	1.57	1.30	1.11	0.868	0.714	0.378
LCP12-34	32.9	22.0	17.6	14.9	12.3	10.4	7.15	5.46	4.20	2.94	2.10	1.66	1.38	1.19	0.929	0.765	0.404
LCP12-38	34.1	22.9	19.1	15.2	12.3	10.4	7.15	5.46	4.20	2.94	2.10	1.66	1.38	1.19	0.929	0.765	0.404
LCP12-80	72.3	50.4	41.1	33.2	27.5	23.5	16.4	12.8	8.98	7.06	5.04	3.99	3.32	2.86	2.23	1.84	0.98
LCP12-90	79.4	56.2	45.7	36.9	30.5	26.1	18.3	14.1	9.89	7.77	5.60	4.44	3.69	3.17	2.48	2.04	1.09
LCP12-135	110.4	79.5	66.6	58.8	52.0	46.2	33.4	26.5	19.1	15.2	10.7	8.5	7.0	6.03	4.75	3.94	2.05
LCP12-225	184.2	134.8	112.5	100.5	88.9	79.1	57.1	45.4	32.8	25.9	18.2	14.5	12.0	10.3	8.15	6.73	5.70
LCP12-300	236.7	179.1	147.6	120.4	99.4	85.4	60.2	47.4	33.6	26.7	19.6	15.8	13.6	12.1	9.85	8.16	4.18
LCP12-350	243.1	204.6	169.8	135.5	111.7	95.8	68.8	54.5	39.5	32.0	23.9	19.4	16.3	14.0	11.1	9.18	4.90
LCP12-400	271.2	234.1	205.1	166.8	138.1	117.7	82.7	64.7	45.8	36.3	26.4	21.3	18.0	15.6	12.4	10.2	5.47
LCP12-450	331.2	267.0	232.3	185.4	150.8	127.4	87.5	67.1	46.9	36.8	26.7	21.6	18.2	15.7	12.4	10.2	5.46
LCP12-700	596.6	442.2	379.3	326.0	276.4	239.8	171.9	135.7	98.0	79.1	58.4	47.5	39.9	34.4	27.3	22.4	12.0
LCP12-800	649.2	487.5	419.0	360.7	307.8	272.5	195.3	154.3	111.3	89.9	66.3	53.9	45.4	39.1	31.0	25.5	13.6

● Constant Power Discharge Rate, watts to 1.70V/Cell at 25°C (77°F)

Time Model	Minutes							Hours									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	39.6	28.4	23.5	20.8	19.4	16.8	12.0	9.42	7.21	5.26	3.73	2.92	2.43	2.09	1.63	1.35	0.72
LCP12-26	42.6	30.5	25.3	22.4	20.9	18.1	12.9	10.1	7.77	5.67	4.02	3.15	2.61	2.25	1.76	1.46	0.77
LCP12-30	55.5	36.3	29.2	24.8	20.9	18.1	12.9	10.1	7.77	5.67	4.02	3.15	2.61	2.25	1.76	1.46	0.77
LCP12-34	59.4	40.6	33.1	28.3	23.6	20.1	14.0	10.8	8.32	5.84	4.20	3.34	2.79	2.40	1.88	1.56	0.83
LCP12-38	61.5	42.3	35.9	28.8	23.6	20.1	14.0	10.8	8.32	5.84	4.20	3.34	2.79	2.40	1.88	1.56	0.83
LCP12-80	129.5	92.3	76.7	62.8	52.4	45.2	32.1	25.3	17.8	14.0	10.1	8.02	6.69	5.77	4.52	3.75	2.01
LCP12-90	142.2	102.8	85.2	69.8	58.3	50.3	35.7	27.9	19.6	15.5	11.2	8.91	7.44	6.42	5.03	4.16	2.23
LCP12-135	208.0	150.8	127.0	112.9	29.2	26.0	18.8	14.9	10.7	29.9	21.3	16.9	14.1	12.1	9.55	7.96	4.16
LCP12-225	346.9	255.7	214.7	193.1	171.3	152.9	111.2	88.9	64.5	51.2	36.2	28.9	24.0	20.7	16.4	13.6	11.6
LCP12-300	434.9	335.0	279.9	230.6	191.4	165.3	117.7	93.5	66.5	53.0	39.1	31.7	27.4	24.4	20.0	16.6	8.6
LCP12-350	453.3	385.4	322.5	259.2	214.7	185.1	134.7	107.4	78.2	63.6	47.9	38.9	32.8	28.3	22.5	18.7	10.0
LCP12-400	491.4	430.1	381.9	315.4	263.9	227.1	161.9	127.6	90.6	72.1	52.7	42.8	36.2	31.5	25.1	20.8	11.2
LCP12-450	601.6	492.2	433.8	350.8	288.1	245.6	171.1	132.3	93.0	73.2	53.4	43.3	36.7	31.7	25.2	20.8	11.2
LCP12-700	1068.8	809.4	707.6	616.7	527.8	462.2	336.1	267.7	194.0	157.3	116.8	95.4	80.5	69.6	55.3	45.7	24.6
LCP12-800	1163.0	892.3	781.7	682.4	587.8	525.3	381.9	304.2	220.5	178.7	132.7	108.4	91.4	79.1	62.8	52.0	28.0

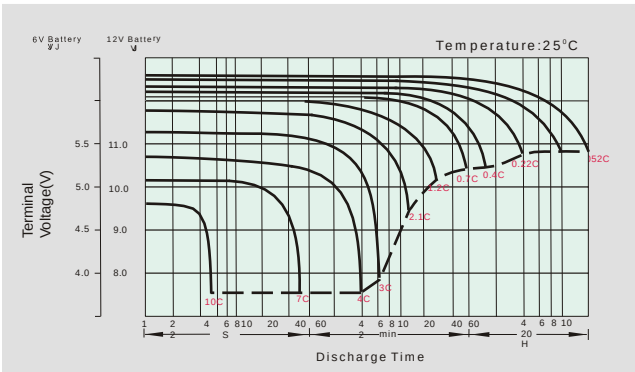
● Constant Current Discharge Rate, amps to 1.67V/Cell at 25°C (77°F)

Time Model	Minutes							Hours									
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	23.5	16.1	13.0	11.3	10.5	9.02	6.34	4.95	3.74	2.71	1.90	1.49	1.23	1.05	0.817	0.670	0.352
LCP12-26	25.3	17.4	14.0	12.2	11.4	9.72	6.83	5.33	4.03	2.92	2.05	1.60	1.32	1.13	0.880	0.722	0.379
LCP12-30	32.6	20.6	16.2	13.5	11.4	9.72	6.83	5.33	4.03	2.92	2.05	1.60	1.32	1.13	0.880	0.722	0.379
LCP12-34	34.1	22.9	18.4	15.5	12.9	10.8	7.38	5.63	4.32	3.02	2.14	1.69	1.40	1.20	0.938	0.773	0.406
LCP12-38	36.8	24.7	20.5	15.9	12.9	10.8	7.38	5.63	4.32	3.02	2.14	1.69	1.40	1.20	0.938	0.773	0.406
LCP12-80	77.3	53.8	43.5	34.6	28.4	24.2	16.9	13.1	9.17	7.21	5.13	4.05	3.37	2.89	2.25	1.86	0.99
LCP12-90	86.5	60.5	48.9	38.5	31.5	26.8	18.7	14.5	10.1	7.93	5.70	4.50	3.74	3.21	2.50	2.06	1.10
LCP12-135	122.1	86.5	71.2	61.5	54.2	48.2	34.5	27.3	19.5	15.5	10.9	8.62	7.16	6.11	4.83	4.00	2.09
LCP12-225	199.6	144.0	118.7	105.2	92.9	82.5	58.9	46.5	33.4	26.5	18.5	14.7	12.2	10.5	8.28	6.85	5.80
LCP12-300	253.8	192.6	159.1	126.9	104.0	88.8	62.7	48.9	34.7	27.5	20.0	16.2	13.9	12.3	10.0	8.23	4.22
LCP12-350	270.2	225.7	185.6	145.4	119.3	102.0	72.5	57.2	41.1	33.0	24.8	19.9	16.6	14.3	11.2	9.26	4.93
LCP12-400	302.6	254.4	217.4	173.7	143.2	121.7	84.8	66.3	46.8	37.1	26.9	21.6	18.2	15.7	12.5	10.3	5.50
LCP12-450	361.2	282.9	244.3	191.9	155.8	131.8	90.4	69.2	48.3	37.8	27.3	22.0	18.5	16.0	12.6	10.4	5.52
LCP12-700	650.0	476.5	402.2	342.5	289.9	250.4	178.1	140.8	101.3	81.5	60.1	48.5	40.6	35.0	27.6	22.6	12.1
LCP12-800	714.6	523.5	445.7	379.5	322.5	284.5	202.3	160.1	115.1	92.6	68.3	55.1	46.1	39.8	31.3	25.7	13.8

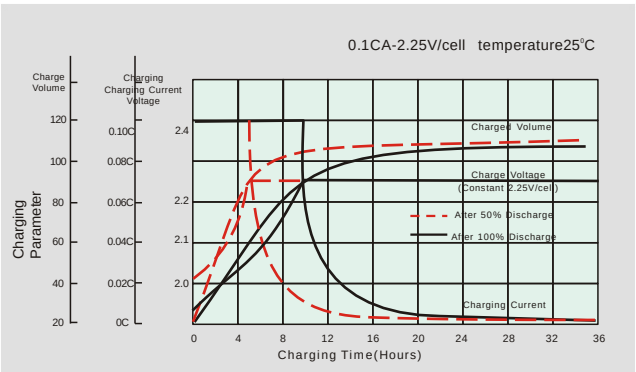
● Constant Power Discharge Rate, watts to 1.67V/Cell at 25°C (77°F)

Time	Minutes							Hours									
Model	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10	20
LCP12-24	41.7	29.2	24.0	21.3	20.0	17.2	12.3	9.69	7.37	5.37	3.80	2.98	2.47	2.12	1.65	1.36	0.72
LCP12-26	44.9	31.5	26.0	22.9	21.5	18.6	13.3	10.4	7.94	5.79	4.09	3.21	2.66	2.29	1.78	1.47	0.78
LCP12-30	58.0	37.4	30.0	25.3	21.5	18.6	13.3	10.4	7.94	5.79	4.09	3.21	2.66	2.29	1.78	1.47	0.78
LCP12-34	60.6	41.6	34.0	29.2	24.4	20.7	14.3	11.0	8.50	5.97	4.26	3.37	2.82	2.42	1.90	1.57	0.83
LCP12-38	65.4	44.8	38.0	29.9	24.4	20.7	14.3	11.0	8.50	5.97	4.26	3.37	2.82	2.42	1.90	1.57	0.83
LCP12-80	135.7	96.8	80.0	64.7	53.8	46.2	32.7	25.6	18.1	14.3	10.2	8.11	6.76	5.82	4.56	3.78	2.02
LCP12-90	151.7	108.9	90.0	71.9	59.5	51.3	36.2	28.3	19.9	15.7	11.4	9.01	7.51	6.46	5.07	4.20	2.25
LCP12-135	228.2	163.0	135.0	117.3	31.8	28.3	20.2	16.0	11.5	30.2	21.5	17.1	14.2	12.2	9.67	8.05	4.21
LCP12-225	372.9	271.1	225.0	200.7	178.0	158.6	114.0	90.7	65.4	51.9	36.6	29.2	24.3	20.9	16.6	13.8	11.7
LCP12-300	462.2	356.8	299.0	241.1	198.7	170.5	121.7	95.8	68.3	54.4	39.8	32.5	27.8	24.7	20.2	16.8	8.6
LCP12-350	500.1	422.0	350.0	276.1	227.8	195.7	140.8	112.1	81.0	65.4	49.3	39.9	33.4	28.8	22.8	18.9	10.1
LCP12-400	539.9	460.5	400.0	324.8	271.2	232.6	164.8	129.8	92.1	73.2	53.5	43.3	36.6	31.7	25.3	20.9	11.3
LCP12-450	644.6	513.1	450.0	358.7	294.6	251.9	175.6	135.5	95.0	74.7	54.4	43.9	37.1	32.1	25.6	21.0	11.3
LCP12-700	1140.3	857.7	740.0	640.5	548.0	478.5	345.6	275.8	199.5	161.4	119.8	97.1	81.5	70.5	55.8	46.1	24.9
LCP12-800	1253.7	942.3	820.0	709.6	609.7	543.7	392.7	313.4	226.6	183.4	136.2	110.3	92.6	80.1	63.4	52.4	28.3

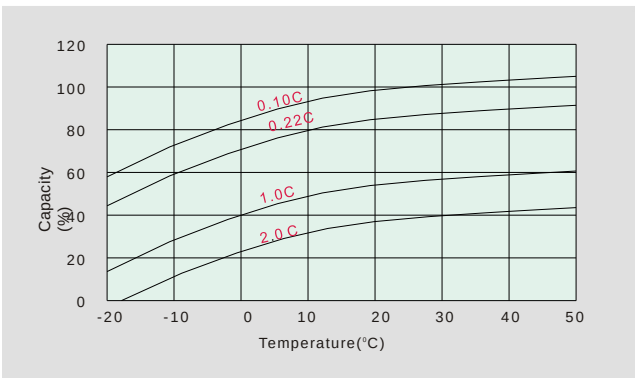
Discharge Characteristics



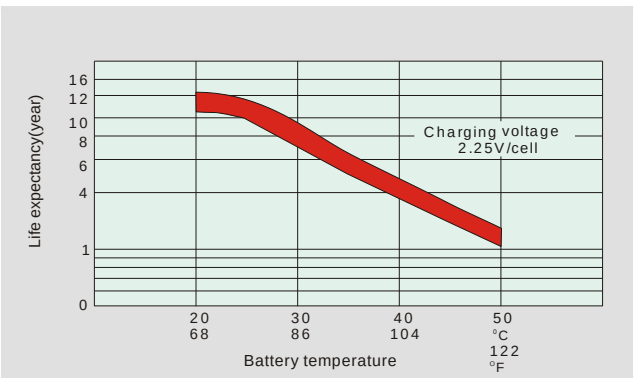
Discharge Characteristics



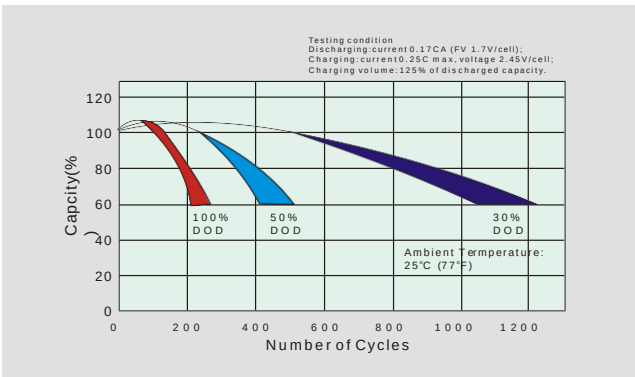
Float Charging Characteristics



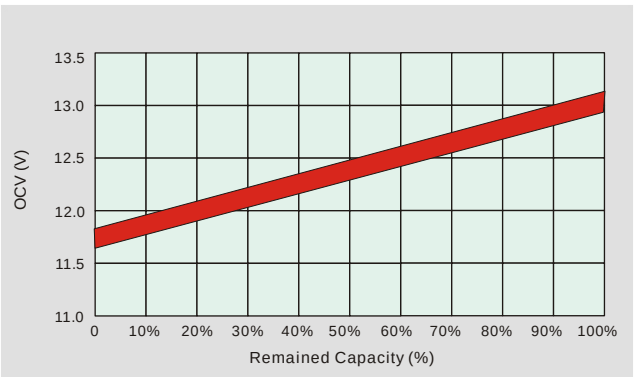
Temperature Effects in Relation to Battery Capacity



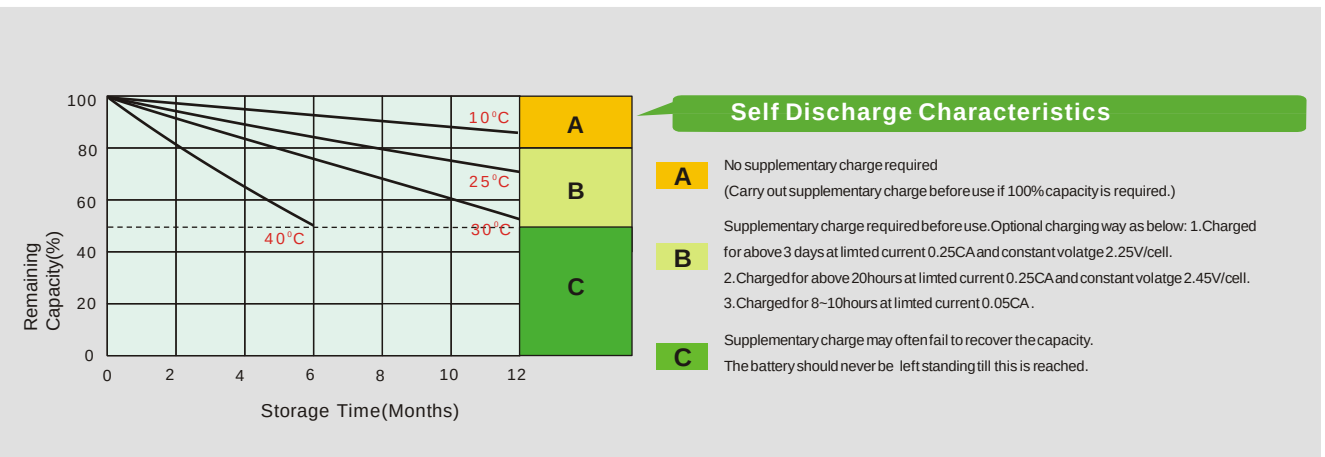
Effect of Temperature on Long Term Float Life



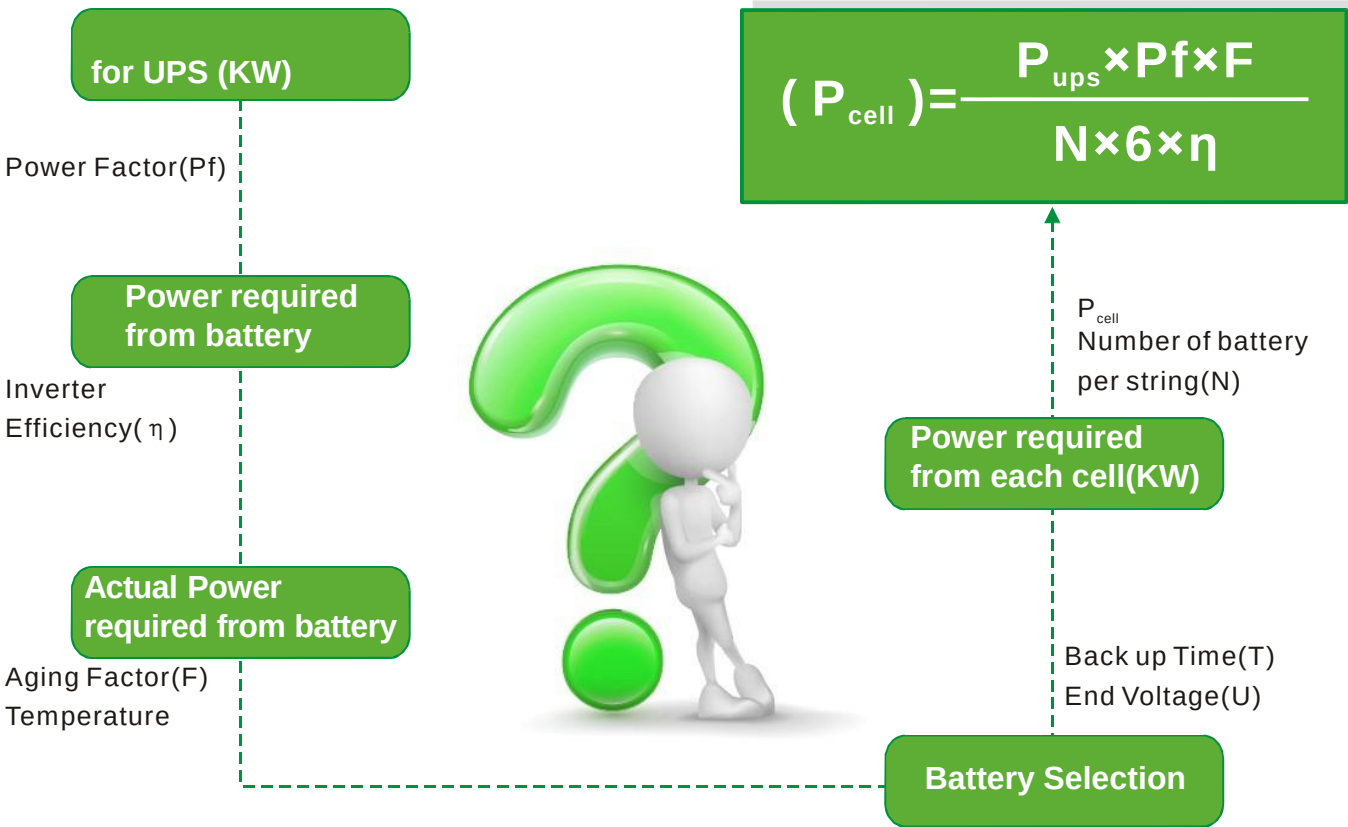
Cycle Life in Relation to Depth of Discharge



Relationship of OCV Vs. State of charge



UPS Configuration



Product Description

Construction	
Positive Plate	Lead-calcium grids minimize corrosion & prolongs life
Negative Plate	Balanced lead-calcium grids optimize recombination efficiency
AGM Separator	Mechanically strong, low electrical resistance, micro porous glass fiber which completely absorbs the electrolyte into its structure
Terminal Post	Lead casting terminal or threaded copper insert alternative (some models), the copper one provides better conductivity.
Venting Valve	EPDM Rubber 10~49KPa release pressure. Resealing at 3~15KPa.
Container / Cover / Lid	ABS (UL-94 HB, UL-94 V0 optional)
Operation temperature range	
Nominal	20°C~25°C (68~77°F)
Discharge	-15°C ~ +50°C (5~122°F)
Charge	0°C ~ 40°C(32~104°F)
Storage	-15°C ~ +40°C (5~104°F)
Performance	
Recommended Maximum Charging Current Limit	Less than 0.3CA
Float Charging Voltage	13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C
Maximum AC Ripple (Charger)	0.02V/cell
Self-Discharge	Low self-discharge rate less than 3% / month @20°C
Equalize charge & cycle service life voltage	13.8~14.4V for equalize charge and 14.4~15.0V for cycle charge voltage @25°C

Note: Design and/or specifications subject to change without notice. If questions arise, contact your local Leoch sales representative for clarification.