

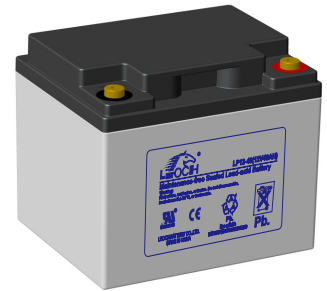


LP Series-General Purpose LP12-40(12V40Ah)

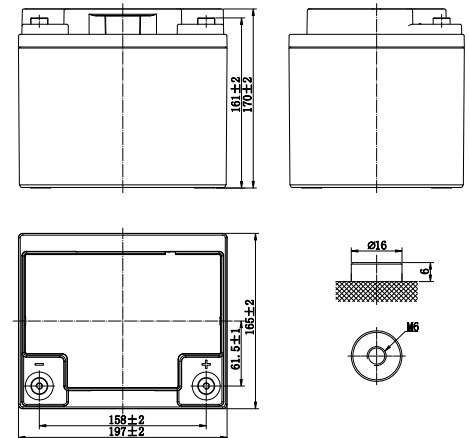


Specifications

Rated Voltage	12V	
Nominal Capacity	40.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	197±2mm (7.76 inches)
	Width	165±2mm (6.50 inches)
	Container Height	170±2mm (6.69 inches)
	Total Height	170±2mm (6.69 inches)
Approx Weight	13.7 Kg (26.9 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	42.0 Ah	C20(2.10A, 1.80V/cell)
	40.0 Ah	C10(4.00A, 1.80V/cell)
	36.4 Ah	C5(7.28A, 1.75V/cell)
	33.3 Ah	C3(11.1A, 1.75V/cell)
	25.5 Ah	C1(25.5A, 1.60V/cell)
Max. Discharge Current	400A (5s)	
Internal Resistance (25°C)	Approx 9.0mΩ	
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 12.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 12.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 12.0A. 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	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	83.2	59.2	51.3	40.3	36.1	26.4	22.3	16.2	13.6	9.99	7.84	6.80	5.99	4.61	3.82	2.03
1.80V/cell	94.6	67.2	58.1	45.6	39.3	28.0	23.1	16.7	14.1	10.8	8.36	7.15	6.44	4.85	4.00	2.10
1.75V/cell	102.8	72.8	62.9	49.2	40.1	29.0	24.3	17.6	14.8	11.1	8.52	7.28	6.49	4.88	4.04	2.12
1.70V/cell	109.9	77.7	66.9	52.2	40.9	29.5	24.8	18.0	15.1	11.3	8.67	7.40	6.52	4.95	4.08	2.14
1.67V/cell	113.7	80.1	68.8	53.6	41.5	30.0	25.1	18.2	15.3	11.4	8.80	7.55	6.55	5.02	4.13	2.17
1.60V/cell	117.8	82.9	70.9	55.0	42.1	30.4	25.5	18.5	15.5	11.5	8.91	7.66	6.60	5.09	4.18	2.19

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	155.4	111.3	97.1	76.7	70.3	50.7	44.1	32.0	27.0	19.9	15.7	13.7	11.8	9.33	7.75	4.12
1.80V/cell	173.9	124.5	108.7	85.8	75.9	53.4	45.4	33.0	27.8	21.5	16.7	14.3	12.7	9.79	8.10	4.26
1.75V/cell	185.6	132.9	116.0	91.6	76.9	55.0	47.4	34.5	29.1	21.9	16.9	14.5	12.7	9.82	8.17	4.30
1.70V/cell	195.1	139.7	121.9	96.3	77.8	55.7	48.1	35.0	29.6	22.2	17.2	14.7	12.8	10.0	8.25	4.34
1.67V/cell	198.3	142.0	123.9	97.9	78.3	56.2	48.6	35.4	29.9	22.3	17.4	15.0	12.8	10.1	8.34	4.39
1.60V/cell	201.0	144.0	125.6	99.3	78.7	56.5	48.9	35.6	30.1	22.4	17.5	15.1	12.9	10.2	8.42	4.43



LP Series-General Purpose LP12-40(12V40Ah)



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

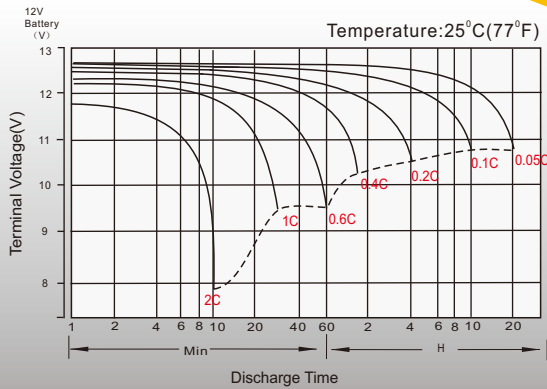
General Features

- 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

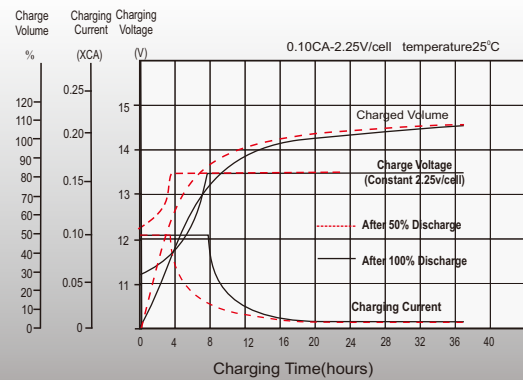
Standards

- 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

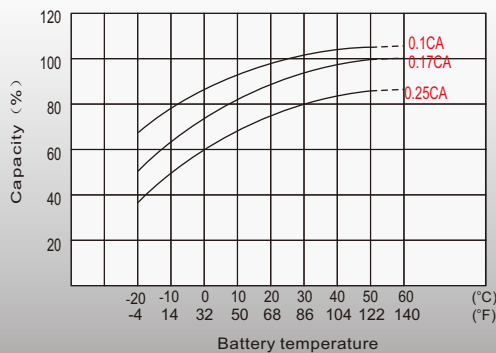
Discharge Characteristics



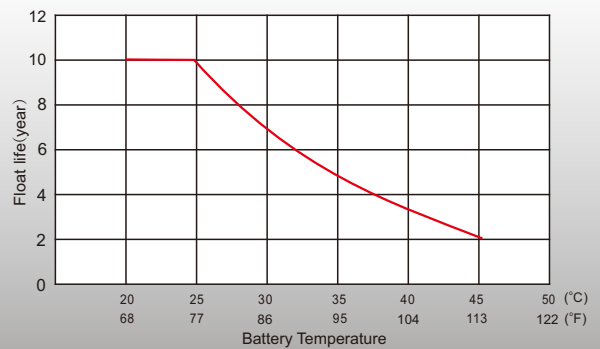
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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Publication No.: LB-LP12-40-PD-EN-V2.1-202110

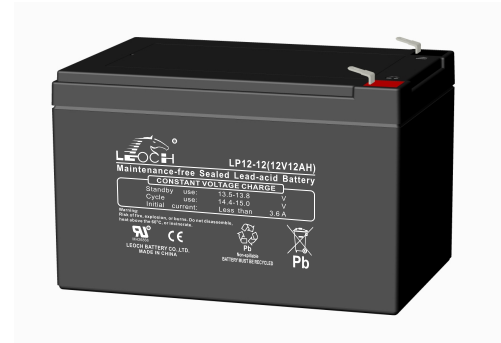


LP Series-General Purpose LP12-12(12V12Ah)

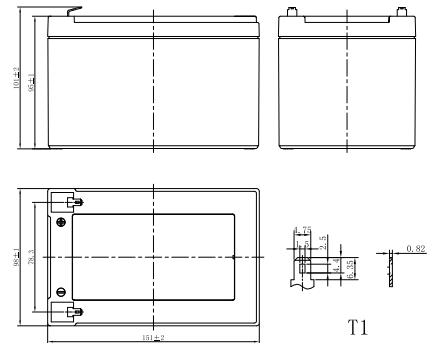


Specifications

Rated Voltage	12V	
Nominal Capacity	12.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	151±2mm (5.95 inches)
	Width	98±1mm (3.86 inches)
	Container Height	95±1mm (3.74 inches)
	Total Height	101±2mm (3.98 inches)
Approx Weight	3.24 Kg (7.14 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	12.0 Ah	(20hr, 0.600A, 1.75V/cell)
	11.2 Ah	(10hr, 1.12A, 1.75V/cell)
	10.2 Ah	(5hr, 2.04A, 1.75V/cell)
	9.00 Ah	(3hr, 3.00A, 1.75V/cell)
	7.20 Ah	(1hr, 7.20A, 1.60V/cell)
Max. Discharge Current	180A (5s)	
Internal Resistance (25°C)	Approx 19mΩ	
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 3.6A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 3.6A. 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	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	30.6	22.7	18.1	14.8	11.0	8.07	6.59	4.81	3.82	2.91	2.34	1.99	1.70	1.34	1.09	0.587
1.80V/cell	33.2	23.9	18.8	15.2	11.3	8.23	6.72	4.90	3.88	2.95	2.37	2.01	1.72	1.35	1.10	0.594
1.75V/cell	35.9	25.1	19.5	15.7	11.5	8.39	6.84	4.98	3.94	3.00	2.40	2.04	1.74	1.37	1.12	0.600
1.70V/cell	38.6	26.2	20.2	16.2	11.8	8.55	6.96	5.06	4.01	3.04	2.43	2.07	1.77	1.39	1.13	0.606
1.67V/cell	40.2	26.9	20.6	16.4	12.0	8.65	7.03	5.11	4.04	3.07	2.45	2.08	1.78	1.40	1.14	0.609
1.60V/cell	43.7	28.6	21.6	17.1	12.3	8.88	7.20	5.22	4.12	3.13	2.50	2.12	1.81	1.42	1.16	0.618

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	58.2	43.5	34.8	28.4	21.2	15.7	12.8	9.40	7.49	5.72	4.60	3.92	3.36	2.65	2.17	1.17
1.80V/cell	62.7	45.4	36.0	29.2	21.7	15.9	13.0	9.53	7.58	5.79	4.66	3.97	3.40	2.68	2.19	1.19
1.75V/cell	67.3	47.4	37.1	29.9	22.1	16.2	13.2	9.66	7.68	5.87	4.72	4.02	3.44	2.71	2.22	1.20
1.70V/cell	71.8	49.3	38.2	30.7	22.5	16.4	13.4	9.79	7.78	5.94	4.77	4.06	3.48	2.74	2.24	1.21
1.67V/cell	74.6	50.5	38.9	31.1	22.8	16.6	13.5	9.87	7.84	5.98	4.80	4.09	3.50	2.76	2.26	1.22
1.60V/cell	80.4	53.1	40.4	32.1	23.3	16.9	13.8	10.0	7.97	6.08	4.88	4.15	3.56	2.80	2.29	1.24



LP Series-General Purpose LP12-12(12V12Ah)



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

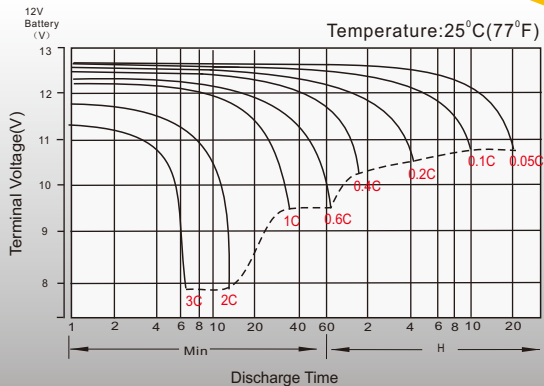
General Features

- 5 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

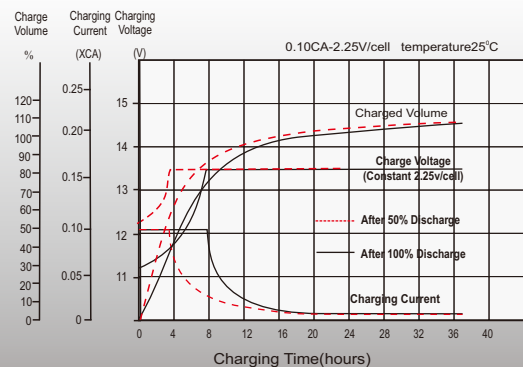
Standards

- 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

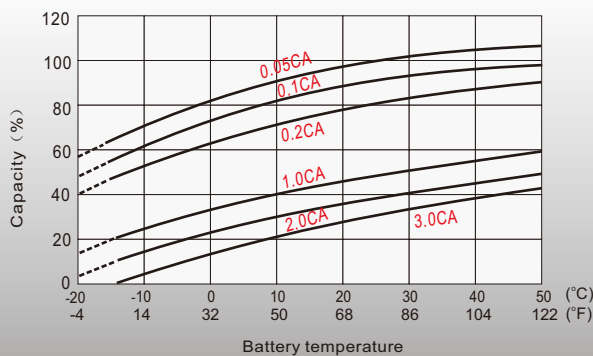
Discharge Characteristics



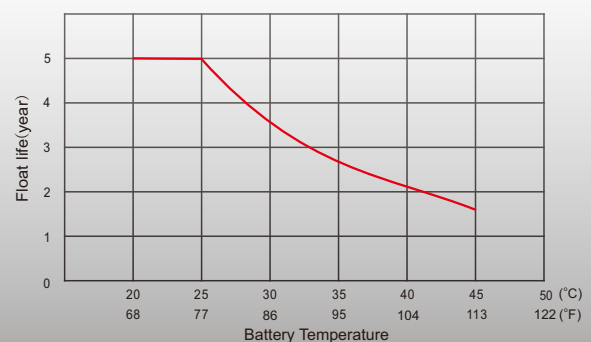
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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Publication No.: LB-LP12-12-PD-EN-V2.0-202004



LP Series-General Purpose LP12-9.0(12V9.0Ah)

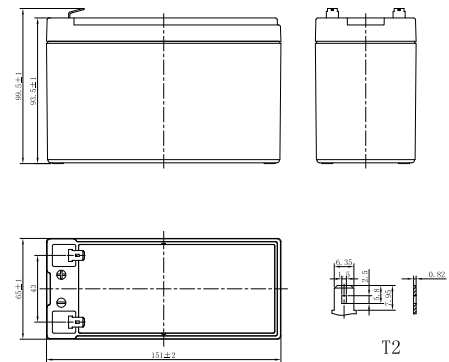


Specifications

Rated Voltage	12V	
Nominal Capacity	9.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height	99.5±1mm (3.92 inches)
Approx Weight	2.52 Kg (5.56 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	9.00 Ah	(20hr, 0.450A, 1.75V/cell)
	8.51 Ah	(10hr, 0.851A, 1.75V/cell)
	7.75 Ah	(5hr, 1.55A, 1.75V/cell)
	6.90 Ah	(3hr, 2.30A, 1.75V/cell)
	5.98 Ah	(1hr, 5.98A, 1.60V/cell)
Max. Discharge Current	135A (5s)	
Internal Resistance (25°C)	Approx 17mΩ	
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 2.70A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 2.70A. 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	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)

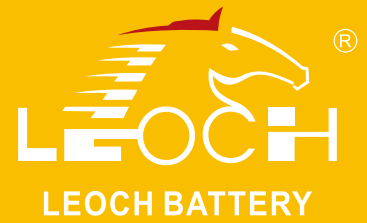
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.2	20.7	16.1	12.9	9.34	6.72	5.41	3.92	3.08	2.22	1.77	1.51	1.29	1.02	0.832	0.440
1.80V/cell	32.4	21.9	16.9	13.4	9.63	6.90	5.54	4.00	3.14	2.26	1.80	1.53	1.31	1.03	0.843	0.445
1.75V/cell	34.2	22.8	17.4	13.8	9.88	7.05	5.66	4.08	3.19	2.30	1.82	1.55	1.33	1.04	0.851	0.450
1.70V/cell	35.8	23.7	18.0	14.2	10.1	7.21	5.76	4.15	3.24	2.33	1.85	1.57	1.34	1.05	0.860	0.454
1.67V/cell	37.0	24.4	18.5	14.5	10.3	7.32	5.85	4.20	3.28	2.35	1.86	1.58	1.35	1.06	0.866	0.457
1.60V/cell	39.3	25.4	19.1	14.9	10.6	7.50	5.98	4.29	3.34	2.40	1.90	1.61	1.37	1.08	0.877	0.462

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	57.1	39.4	30.8	24.8	18.1	13.0	10.5	7.66	6.03	4.37	3.49	2.98	2.55	2.02	1.65	0.880
1.80V/cell	60.8	41.4	32.1	25.7	18.5	13.3	10.8	7.79	6.13	4.43	3.53	3.02	2.59	2.04	1.67	0.890
1.75V/cell	63.3	42.8	33.0	26.2	18.9	13.6	10.9	7.91	6.22	4.49	3.58	3.05	2.62	2.06	1.69	0.900
1.70V/cell	65.7	44.2	33.9	26.9	19.3	13.8	11.1	8.03	6.30	4.55	3.62	3.09	2.64	2.08	1.71	0.907
1.67V/cell	67.4	45.2	34.6	27.4	19.6	14.0	11.2	8.11	6.36	4.59	3.65	3.11	2.67	2.10	1.72	0.914
1.60V/cell	70.1	46.5	35.6	28.0	20.0	14.3	11.4	8.3	6.46	4.66	3.71	3.15	2.70	2.13	1.74	0.924



LP Series-General Purpose LP12-9.0(12V9.0Ah)



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

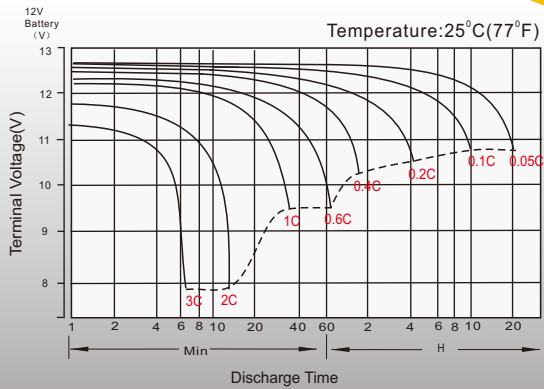
General Features

- 5 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

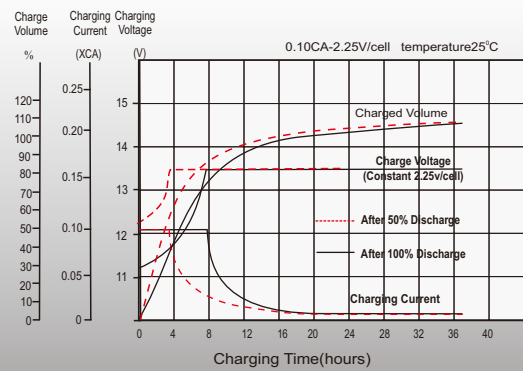
Standards

- 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

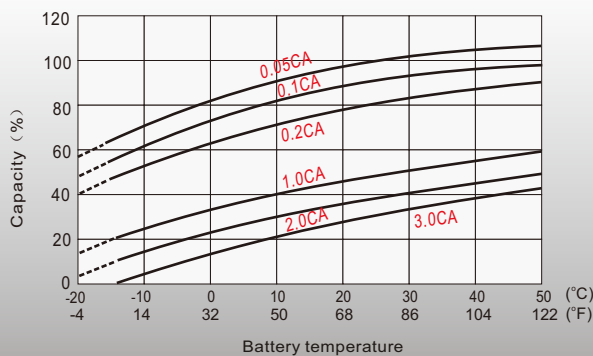
Discharge Characteristics



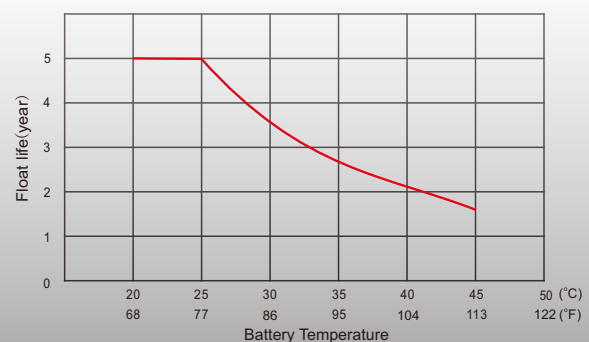
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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Publication No.: LB-LP12-9.0-PD-EN-V3.0-202101

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	7.0AH	
Dimensions	Length	151±1mm (5.95 inches)
	Width	65±1mm (2.54 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.18 kg (4.81lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	7.00 AH/0.350A	(20hr , 1.80V/cell,25°C/77°F)
	6.53 AH/0.653A	(10hr, 1.80V/cell,25°C/77°F)
	5.80 AH/1.16A	(5hr, 1.75V/cell,25°C/77°F)
	5.13 AH/1.71A	(3hr, 1.75V/cell,25°C/77°F)
	4.26 AH/4.26A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	105A (5s)	
Internal Resistance	Approx 23mΩ	
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 2.1A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch 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.	



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371

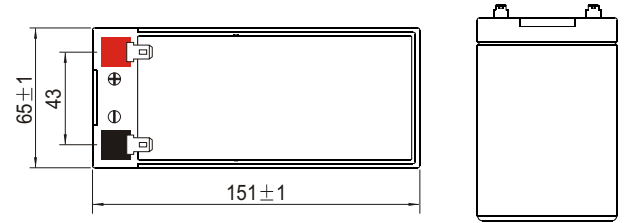
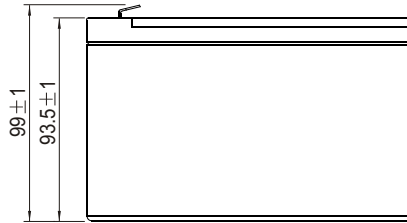
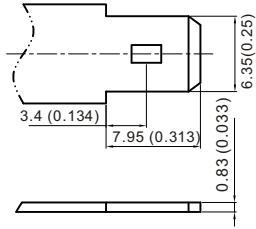
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728

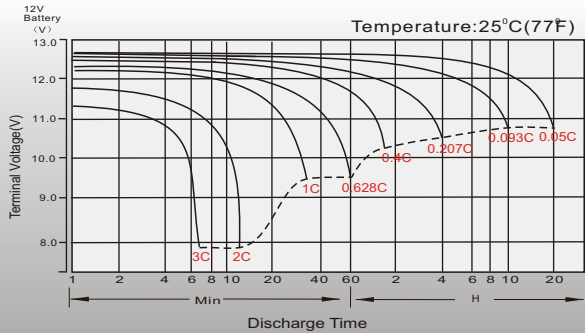
Dimensions

T2 Terminal

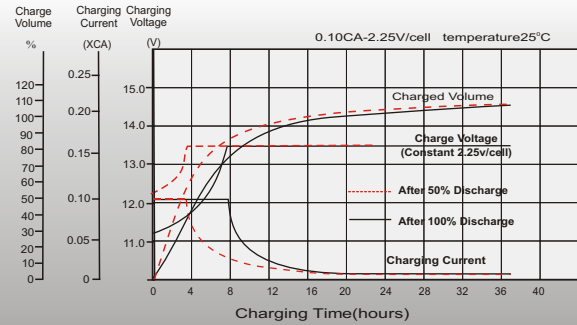
Unit: mm [inches]



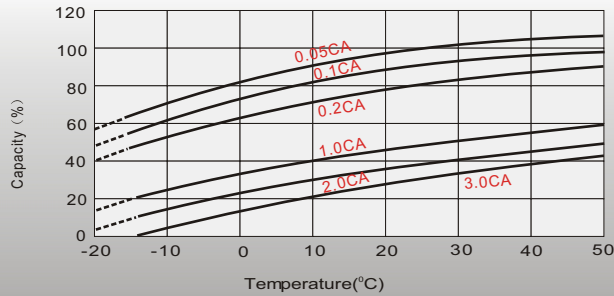
Discharge Characteristics



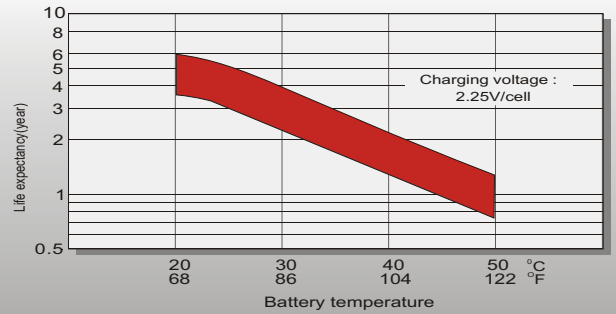
Float Charging Characteristics



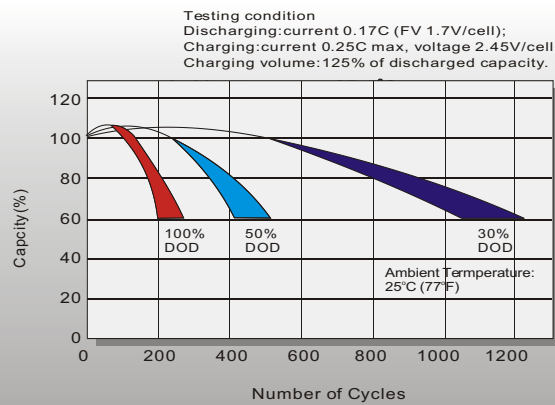
Temperature Effects in Relation to Battery Capacity



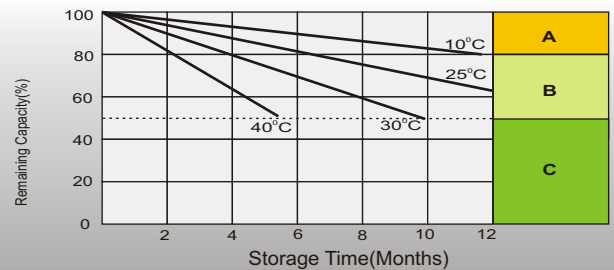
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.

C Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

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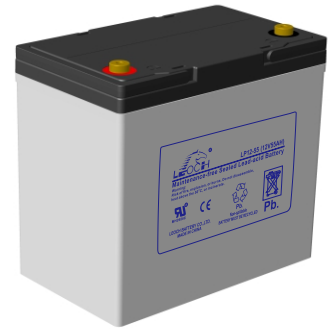


LP Series-General Purpose LP12-55(12V55Ah)

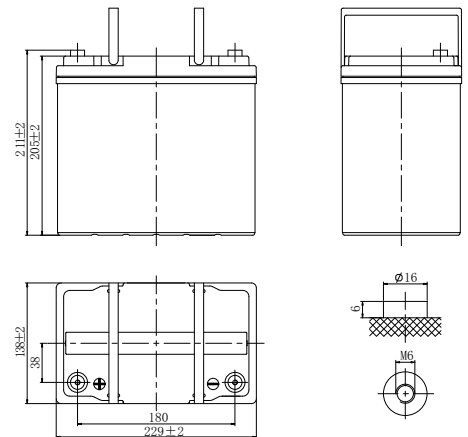


Specifications

Rated Voltage	12V	
Nominal Capacity	55.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	229±2mm (9.02 inches)
	Width	138±2mm (5.43 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	211±2mm (8.31 inches)
Approx Weight	16.2 Kg (35.7 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	57.8 Ah	(20hr, 2.89A, 1.80V/cell)
	55.0 Ah	(10hr, 5.50A, 1.80V/cell)
	50.0 Ah	(5hr, 10.0A, 1.75V/cell)
	45.6 Ah	(3hr, 15.2A, 1.75V/cell)
	35.1 Ah	(1hr, 35.1A, 1.60V/cell)
Max. Discharge Current	550A (5s)	
Internal Resistance (25°C)	Approx 9.0mΩ	
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 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	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	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	112.1	79.7	70.5	55.5	49.6	36.3	30.7	22.3	18.7	13.7	10.8	9.35	8.24	6.34	5.25	2.79
1.80V/cell	127.5	90.5	79.9	62.7	54.0	38.4	31.8	23.0	19.3	14.9	11.5	9.83	8.86	6.67	5.50	2.89
1.75V/cell	138.5	98.2	86.5	67.7	55.1	39.8	33.4	24.2	20.4	15.2	11.7	10.0	8.93	6.70	5.56	2.92
1.70V/cell	148.1	104.7	91.9	71.8	56.2	40.6	34.1	24.7	20.8	15.5	11.9	10.2	8.97	6.81	5.61	2.95
1.67V/cell	153.3	108.0	94.6	73.8	57.0	41.2	34.6	25.1	21.1	15.6	12.1	10.4	9.01	6.90	5.68	2.98
1.60V/cell	158.7	111.7	97.5	75.7	57.9	41.8	35.1	25.4	21.4	15.8	12.2	10.5	9.08	6.99	5.75	3.02

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	203.0	145.4	133.6	105.5	94.8	69.7	59.4	43.2	36.4	26.8	21.1	18.4	16.3	12.6	10.4	5.55
1.80V/cell	227.1	162.7	149.4	118.0	102.4	73.4	61.2	44.4	37.4	29.0	22.5	19.3	17.4	13.2	10.9	5.74
1.75V/cell	242.4	173.6	159.5	126.0	103.7	75.6	64.0	46.5	39.2	29.5	22.8	19.6	17.5	13.2	11.0	5.79
1.70V/cell	254.8	182.5	167.6	132.4	104.9	76.6	64.9	47.2	39.9	29.9	23.1	19.8	17.6	13.4	11.1	5.84
1.67V/cell	259.0	185.5	170.4	134.6	105.6	77.3	65.5	47.7	40.3	30.1	23.4	20.2	17.6	13.6	11.2	5.91
1.60V/cell	262.6	188.1	172.8	136.5	106.1	77.7	66.0	48.0	40.6	30.2	23.6	20.4	17.7	13.7	11.4	5.97



LP Series-General Purpose LP12-55(12V55Ah)



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

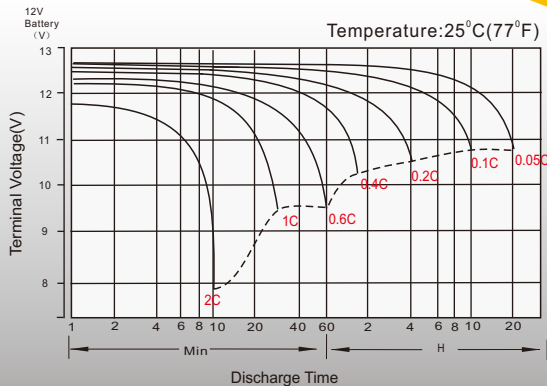
General Features

- 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

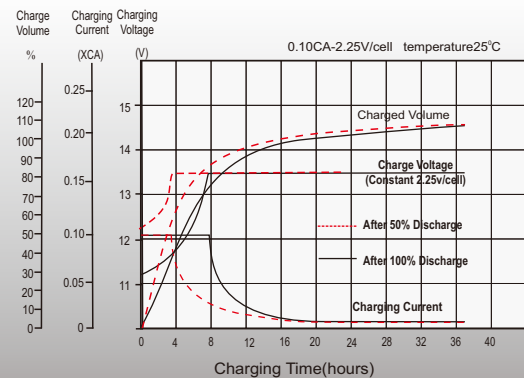
Standards

- 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

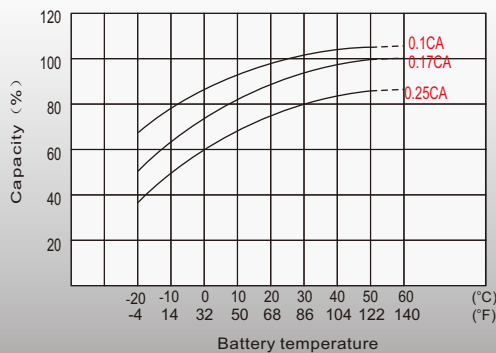
Discharge Characteristics



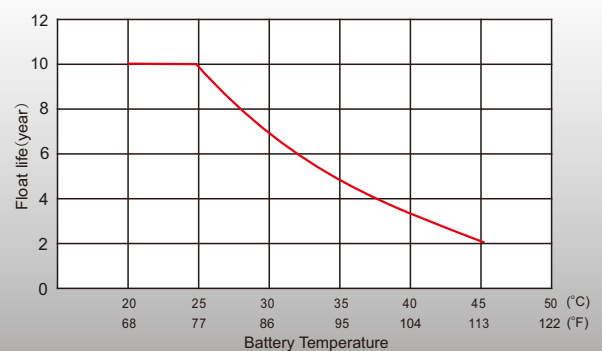
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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Publication No.: LB-LP12-55-PD-EN-V2.1-202110