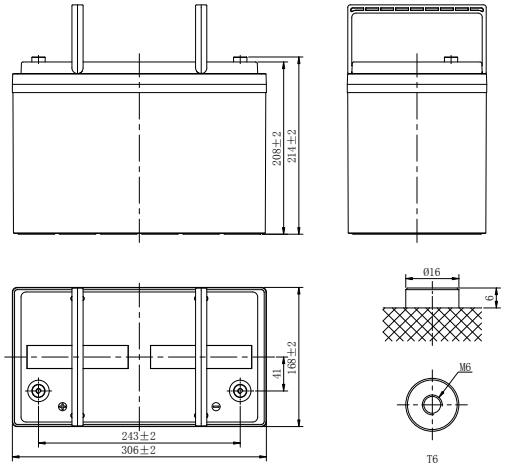
LPL SERIES-LONG LIFE STANDBY

LPL12-90H (12V90Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	90Ah
Dimension	Length	306mm (12.0inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight		27.1kg (59.7lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2070A
Internal Resistance (25˚C)		Approx 6.0 mΩ (Fully charged)
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)
Max.Charging Current (25˚C)		0.3C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	25˚C (77°F)	100%
	0˚C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). LPL series batteries may be stored 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.	

DISCHARGE TABLE

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	134.5	116.6	91.7	82.0	60.0	50.8	30.9	22.7	17.8	15.5	13.6	10.5	8.68	4.61
1.80V/cell	152.6	132.1	103.7	89.3	63.5	52.6	32.0	24.6	19.0	16.3	14.6	11.0	9.00	4.77
1.75V/cell	165.5	143.0	111.9	91.1	65.8	55.2	33.6	25.1	19.4	16.5	14.8	11.1	9.18	4.82
1.70V/cell	176.5	151.9	118.7	92.9	67.1	56.3	34.3	25.6	19.7	16.8	14.8	11.2	9.27	4.87
1.67V/cell	182.1	156.3	121.9	94.3	68.1	57.1	34.8	25.8	20.0	17.2	14.9	11.4	9.39	4.93
1.60V/cell	188.3	161.2	125.0	95.6	69.1	58.0	35.3	26.1	20.2	17.4	15.0	11.6	9.50	4.99
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	253.0	220.8	174.4	156.7	115.3	98.2	60.2	44.4	34.9	30.4	26.9	20.8	17.3	9.17
1.80V/cell	283.0	246.9	195.1	169.2	121.3	101.2	61.9	47.9	37.2	31.9	28.8	21.8	18.1	9.49
1.75V/cell	302.0	263.6	208.2	171.4	125.0	105.7	64.8	48.7	37.7	32.3	28.9	21.9	18.2	9.57
1.70V/cell	317.5	277.1	218.9	173.3	126.6	107.2	65.9	49.5	38.2	32.8	29.0	22.2	18.4	9.66
1.67V/cell	322.7	281.6	222.5	174.5	127.7	108.2	66.6	49.7	38.7	33.3	29.1	22.4	18.6	9.77
1.60V/cell	327.2	285.5	225.6	175.3	128.4	109.0	67.1	49.9	39.0	33.7	29.2	22.7	18.8	9.87

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LEOCH BATTERY

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

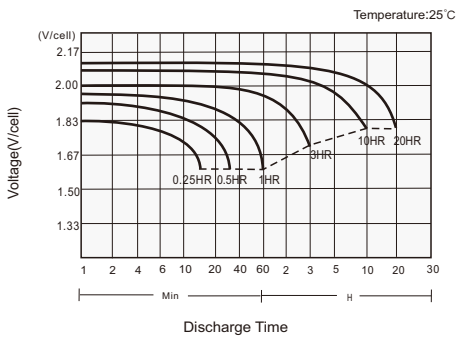
GENERAL FEATURES

- 12 years design life (25℃)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

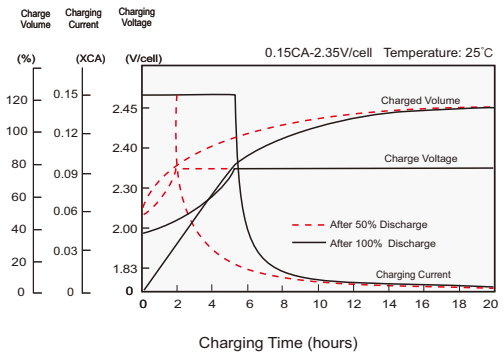
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL,CE Approved
- Manufactured in Leoch®IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

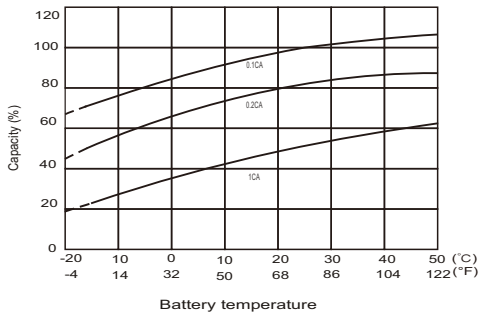
Discharge Characteristics



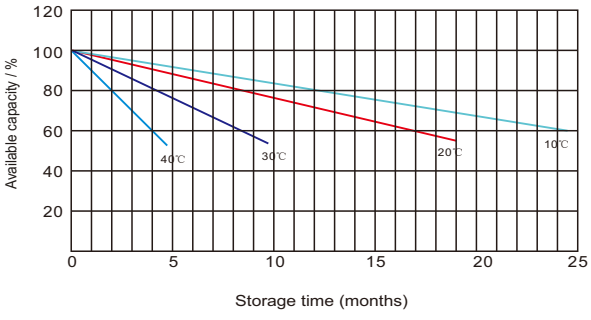
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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Publication No.:LB-LPL12-90H-PD-EN-V1.0-20240105