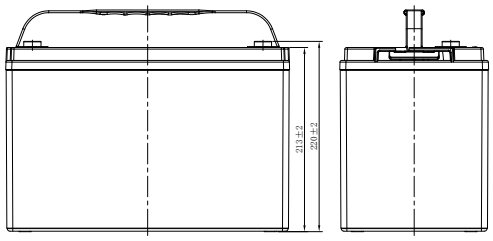
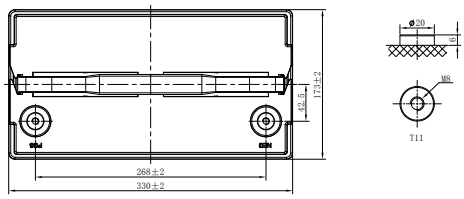
LP SERIES-GENERAL PURPOSE

LP12-100 (12V100Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	100Ah
Dimension	Length	330mm (13.0inches)
	Width	173mm (6.81inches)
	Container Height	213mm (8.39inches)
	Total Height	220mm (8.66inches)
Approx Weight		28.5kg (62.8lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2000A
Internal Resistance (25˚C)		Approx 4.9 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). LP 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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	195.7	139.2	125.7	98.9	88.4	64.6	54.7	39.7	33.4	24.5	19.2	16.7	14.7	11.3	9.36	4.96
1.80V/cell	222.6	158.0	142.4	111.8	96.2	68.5	56.7	41.0	34.4	26.6	20.5	17.5	15.8	11.9	10.0	5.15
1.75V/cell	241.8	171.3	154.2	120.7	98.2	71.0	59.5	43.1	36.3	27.1	20.9	17.8	15.9	11.9	10.1	5.20
1.70V/cell	258.5	182.7	163.8	127.9	100.2	72.4	60.7	44.0	37.0	27.6	21.2	18.1	16.0	12.1	10.2	5.25
1.67V/cell	267.5	188.5	168.6	131.4	101.6	73.4	61.6	44.6	37.5	27.9	21.6	18.5	16.1	12.3	10.3	5.31
1.60V/cell	277.0	194.9	173.8	134.8	103.1	74.5	62.5	45.3	38.1	28.1	21.8	18.8	16.2	12.5	10.4	5.38
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	365.6	261.8	238.0	188.0	168.9	124.3	105.9	77.0	64.9	47.8	37.7	32.8	29.0	22.4	18.6	9.89
1.80V/cell	408.9	292.9	266.2	210.3	182.4	130.8	109.1	79.2	66.7	51.7	40.1	34.4	31.1	23.5	19.5	10.2
1.75V/cell	436.5	312.6	284.1	224.5	184.7	134.7	114.0	82.9	69.9	52.5	40.7	34.9	31.2	23.6	19.6	10.3
1.70V/cell	458.8	328.6	298.7	236.0	186.8	136.5	115.6	84.1	71.0	53.3	41.2	35.3	31.3	23.9	19.8	10.4
1.67V/cell	466.3	334.0	303.6	239.8	188.2	137.7	116.7	84.9	71.8	53.6	41.7	35.9	31.4	24.2	20.0	10.5
1.60V/cell	472.8	338.7	307.8	243.2	189.0	138.4	117.5	85.6	72.3	53.8	42.0	36.3	31.5	24.5	20.2	10.6

LP SERIES-GENERAL PURPOSE

LP12-100 (12V100Ah)

LEOCH BATTERY

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

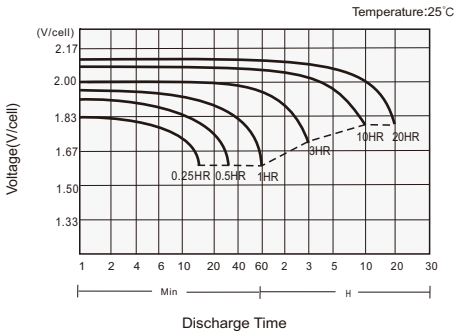
GENERAL FEATURES

- 10 years design life (25℃)
- 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

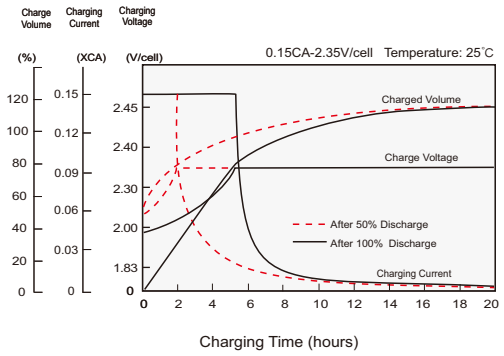
STANDARDS

- 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

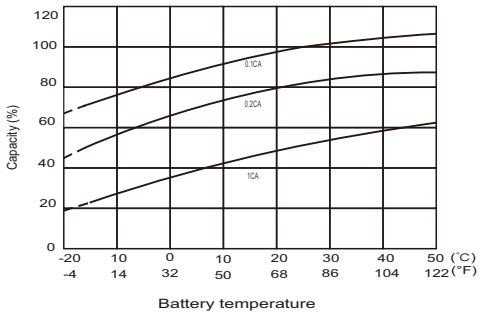
Discharge Characteristics



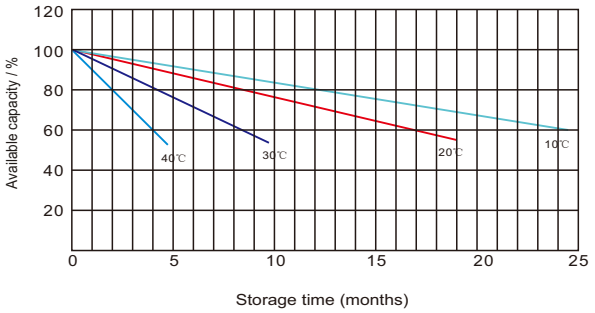
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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