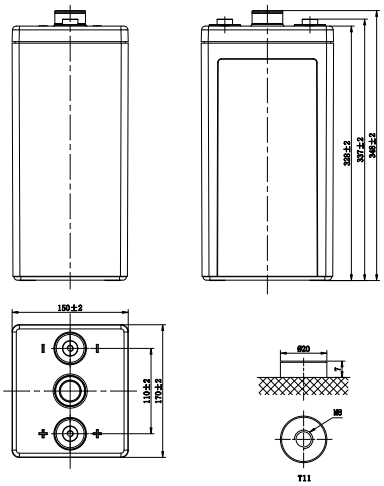
LP SERIES-GENERAL PURPOSE

LP2-300 (2V300Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25℃)	C_{10},1.80V/cell	300Ah
Dimension	Length	170mm (6.69inches)
	Width	150mm (5.91inches)
	Container Height	328mm (12.9inches)
	Total Height	348mm (13.7inches)
Approx Weight		17.3kg (38.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3900A
Internal Resistance (25℃)		Approx 0.8 mΩ (Fully charged)
Operating Temp. Range	Discharge	-15~50℃ (5~122°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-15~40℃ (5~104°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.3C
Charge voltage (25℃)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-5mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (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	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	223.0	200.0	185.2	161.8	141.6	111.6	90.8	70.2	56.5	47.7	41.4	33.6	28.1	15.7
1.80V/cell	267.0	235.9	212.7	180.9	156.7	122.2	96.7	76.0	60.9	51.3	44.4	36.0	30.0	15.9
1.75V/cell	306.8	257.4	222.6	188.3	165.5	126.3	101.7	78.0	62.4	52.5	45.3	36.7	30.5	16.1
1.70V/cell	341.9	288.5	240.6	195.4	168.5	130.5	104.6	80.3	64.0	53.7	46.3	37.3	30.9	16.3
1.67V/cell	354.1	298.6	243.4	199.8	172.0	132.9	105.0	81.5	64.9	54.4	46.8	37.7	31.2	16.4
1.60V/cell	372.2	311.3	248.0	210.1	180.3	138.9	109.4	84.7	65.8	55.4	47.6	38.0	31.6	16.5
Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	400.5	367.4	340.1	313.7	275.3	217.7	177.7	137.7	111.0	93.8	81.6	66.4	55.6	30.0
1.80V/cell	474.3	428.9	387.3	348.2	302.5	236.9	186.4	148.4	119.2	100.8	87.3	71.0	59.3	31.6
1.75V/cell	538.9	463.3	401.7	359.6	311.5	243.3	194.2	151.7	121.7	102.7	88.9	72.1	60.1	32.0
1.70V/cell	593.4	513.8	423.7	370.3	320.8	250.0	199.0	155.4	124.4	104.8	90.5	73.3	60.9	32.3
1.67V/cell	601.6	525.3	431.1	376.7	325.8	253.6	202.1	157.3	125.8	105.8	91.5	73.9	61.4	32.6
1.60V/cell	629.1	541.7	435.3	392.0	338.5	262.7	208.9	162.1	129.3	108.6	93.6	75.4	62.6	33.1

LP SERIES-GENERAL PURPOSE

LP2-300 (2V300Ah)

LEOCH BATTERY

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)

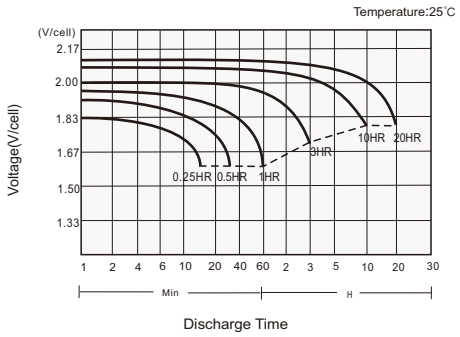
GENERAL FEATURES

- 15 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

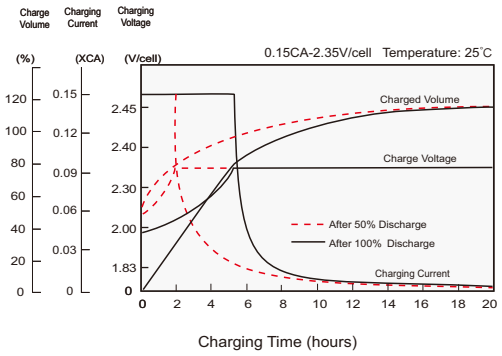
STANDARDS

- 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

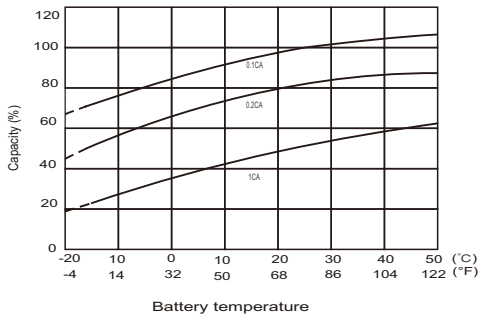
Discharge Characteristics



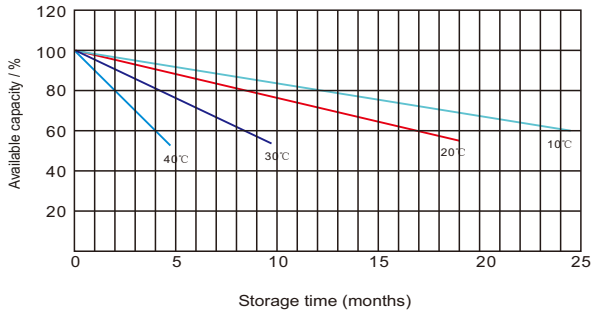
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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