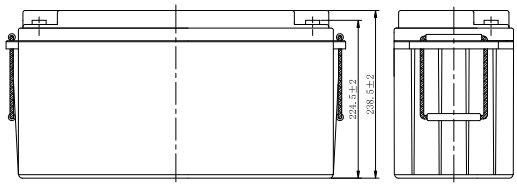
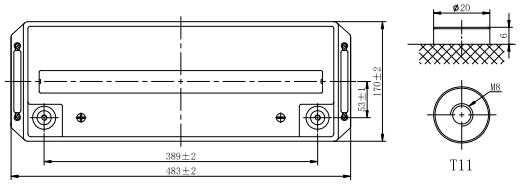
LPL SERIES-LONG LIFE STANDBY

LPL12-150 (12V150Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	150Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight		46.5kg (102.5lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3000A
Internal Resistance (25˚C)		Approx 3.5 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	210.8	182.8	150.8	118.7	88.6	76.6	47.7	35.0	27.4	23.8	21.0	16.1	14.3	7.60
1.80V/cell	239.3	207.1	168.2	129.2	93.9	79.4	49.2	37.9	29.3	25.0	22.5	17.0	15.0	7.88
1.75V/cell	259.5	224.2	178.1	131.9	97.3	83.3	51.8	38.7	29.8	25.5	22.7	17.1	15.2	7.95
1.70V/cell	276.7	238.2	186.4	134.5	99.3	85.0	52.8	39.4	30.4	25.9	22.8	17.3	15.3	8.03
1.67V/cell	285.4	245.1	190.8	136.5	100.7	86.2	53.6	39.8	30.8	26.4	22.9	17.6	15.5	8.13
1.60V/cell	295.2	252.7	195.6	138.5	102.2	87.5	54.4	40.2	31.2	26.8	23.1	17.8	15.7	8.23
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	396.6	346.1	286.5	226.8	170.4	148.3	92.7	68.3	53.8	46.9	41.5	32.0	28.5	15.1
1.80V/cell	443.7	387.1	316.1	245.0	179.4	152.7	95.3	73.8	57.2	49.1	44.4	33.6	29.8	15.7
1.75V/cell	473.5	413.2	330.7	248.1	184.8	159.5	99.9	75.0	58.1	49.8	44.6	33.7	30.1	15.8
1.70V/cell	497.8	434.4	342.7	250.9	187.2	161.9	101.4	76.2	58.9	50.5	44.7	34.2	30.3	15.9
1.67V/cell	505.9	441.4	347.1	252.7	188.8	163.3	102.5	76.6	59.6	51.3	44.8	34.6	30.7	16.1
1.60V/cell	513.0	447.6	350.7	253.8	189.8	164.5	103.3	76.9	60.0	51.8	45.0	34.9	31.0	16.3

LPL SERIES-LONG LIFE STANDBY

LPL12-150 (12V150Ah)

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

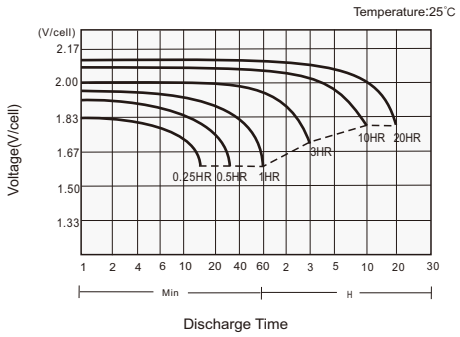
GENERAL FEATURES

- 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

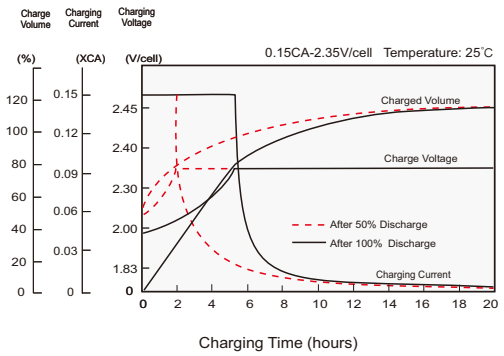
STANDARDS

- 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

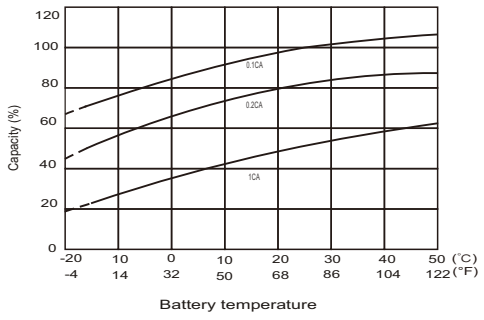
Discharge Characteristics



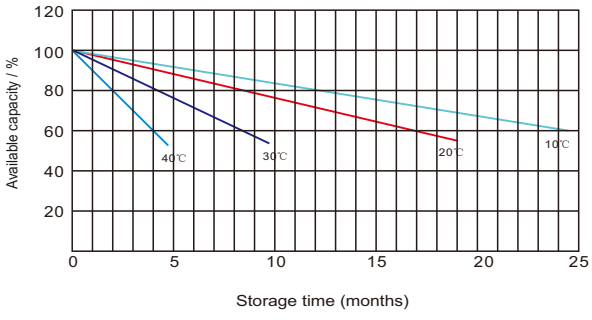
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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