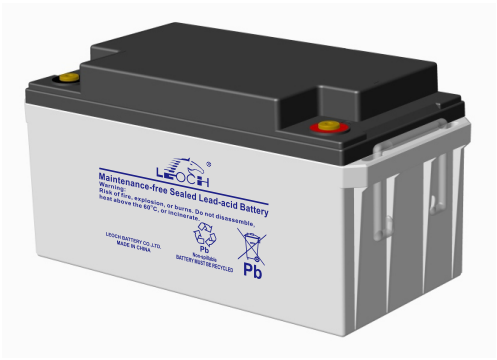
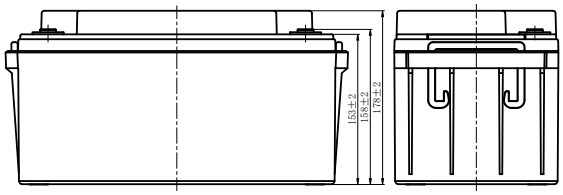
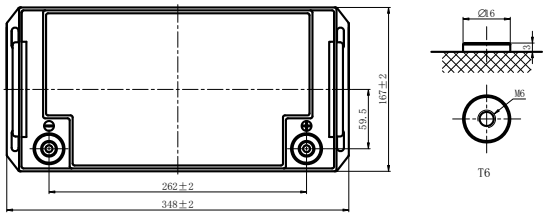
LPL SERIES-LONG LIFE STANDBY

LPL12-65 (12V65Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	65Ah
Dimension	Length	348mm (13.7inches)
	Width	167mm (6.57inches)
	Container Height	178mm (7.01inches)
	Total Height	178mm (7.01inches)
Approx Weight		21kg (46.3lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1495A
Internal Resistance (25˚C)		Approx 7.0 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	85.6	66.2	56.2	45.6	36.3	31.4	19.9	15.3	12.3	10.4	9.00	7.32	6.12	3.27
1.80V/cell	104.7	79.8	66.7	53.0	41.2	35.0	21.7	16.5	13.2	11.1	9.63	7.80	6.50	3.45
1.75V/cell	115.7	86.4	71.4	55.4	42.8	36.4	22.5	17.0	13.6	11.4	9.84	7.94	6.58	3.48
1.70V/cell	126.3	92.9	75.9	58.0	44.3	37.8	23.3	17.6	14.0	11.7	10.1	8.05	6.67	3.52
1.67V/cell	132.9	96.6	78.5	59.6	45.2	38.5	23.8	17.8	14.2	11.9	10.2	8.11	6.73	3.55
1.60V/cell	148.2	105.8	85.0	63.2	47.4	40.5	24.9	18.6	14.8	12.3	10.6	8.27	6.86	3.62
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	159.1	124.4	106.6	87.2	69.9	60.8	38.6	29.8	24.0	20.3	17.7	14.5	12.1	6.48
1.80V/cell	191.3	147.8	124.9	100.2	78.6	67.4	41.9	32.1	25.8	21.7	18.9	15.4	12.8	6.82
1.75V/cell	207.7	157.9	132.2	103.8	81.0	69.7	43.3	33.0	26.4	22.2	19.2	15.6	13.0	6.88
1.70V/cell	222.9	167.2	138.9	107.5	83.4	71.9	44.6	33.8	27.0	22.7	19.7	15.8	13.2	6.95
1.67V/cell	231.8	172.4	142.8	109.8	84.6	73.1	45.4	34.2	27.4	23.0	19.9	15.9	13.3	7.01
1.60V/cell	251.9	185.0	152.0	114.8	87.8	76.0	47.2	35.6	28.3	23.8	20.5	16.1	13.5	7.13

LPL SERIES-LONG LIFE STANDBY

LPL12-65 (12V65Ah)

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

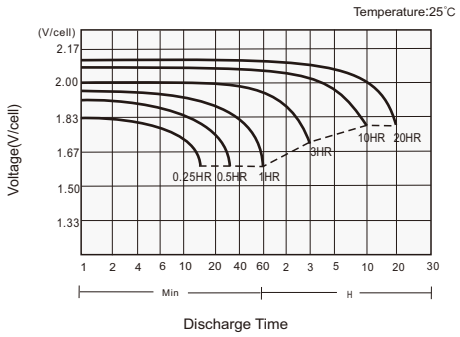
GENERAL FEATURES

- 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

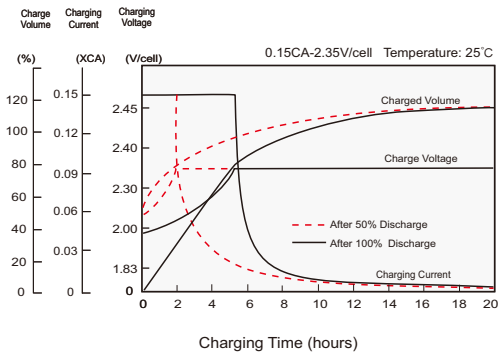
STANDARDS

- 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

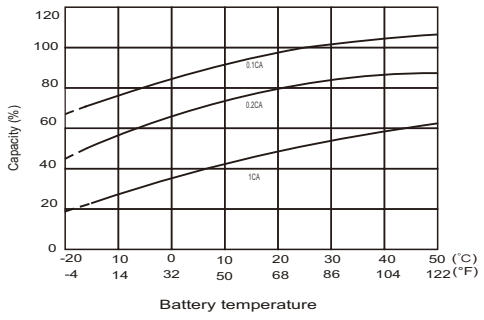
Discharge Characteristics



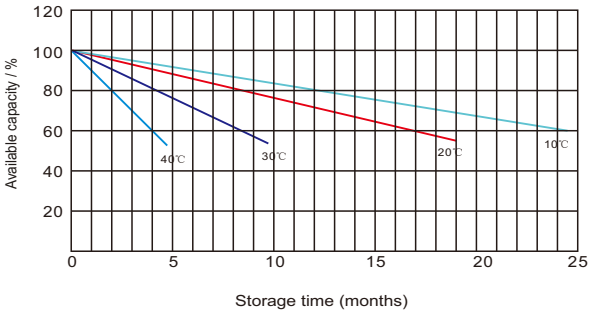
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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