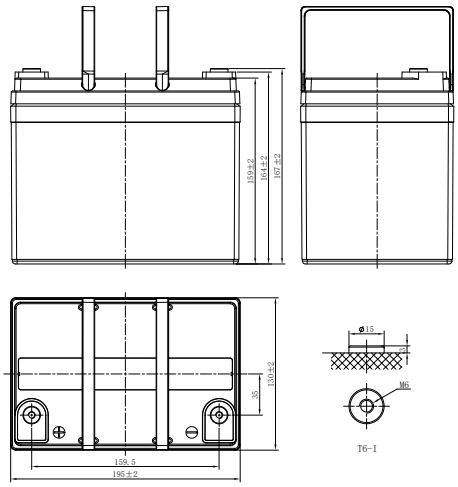
LPL SERIES-LONG LIFE STANDBY

LPL12-33 (12V35Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.75V/cell	35Ah
Dimension	Length	195mm (7.68inches)
	Width	130mm (5.12inches)
	Container Height	164mm (6.46inches)
	Total Height	167mm (6.57inches)
Approx Weight		9.80kg (21.6lbs)
Terminal		T6-I(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		875A
Internal Resistance (25˚C)		Approx 14 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	2.35-2.45V/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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	92.4	63.5	49.8	41.0	30.8	22.9	19.0	14.2	11.3	8.15	6.50	5.53	4.73	3.73	3.05	1.71
1.80V/cell	99.3	67.3	52.2	42.7	31.7	23.5	19.5	14.5	11.5	8.29	6.59	5.61	4.81	3.78	3.09	1.73
1.75V/cell	104.6	70.0	54.0	43.8	32.6	24.0	19.9	14.7	11.7	8.42	6.68	5.68	4.86	3.82	3.12	1.75
1.70V/cell	109.6	72.9	55.8	45.1	33.4	24.5	20.3	15.0	11.9	8.54	6.77	5.76	4.92	3.86	3.15	1.76
1.67V/cell	113.4	74.9	57.1	46.1	34.0	24.9	20.6	15.2	12.0	8.62	6.84	5.81	4.97	3.90	3.18	1.78
1.60V/cell	120.3	78.1	59.1	47.4	34.9	25.5	21.0	15.5	12.3	8.78	6.96	5.90	5.04	3.95	3.22	1.79
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	174.7	120.9	95.3	79.0	59.5	44.4	37.0	27.6	22.1	16.0	12.8	10.9	9.37	7.39	6.06	3.43
1.80V/cell	186.1	127.3	99.4	81.7	61.1	45.4	37.8	28.1	22.5	16.3	13.0	11.1	9.50	7.49	6.14	3.46
1.75V/cell	193.9	131.5	102.1	83.6	62.4	46.2	38.4	28.6	22.8	16.5	13.1	11.2	9.60	7.57	6.19	3.50
1.70V/cell	201.1	135.8	104.8	85.5	63.7	47.1	39.0	29.0	23.1	16.7	13.3	11.3	9.70	7.64	6.25	3.53
1.67V/cell	206.4	138.8	107.1	87.1	64.7	47.7	39.5	29.3	23.3	16.8	13.4	11.4	9.78	7.70	6.29	3.55
1.60V/cell	214.7	142.9	110.0	89.2	66.1	48.6	40.2	29.8	23.7	17.1	13.6	11.6	9.89	7.80	6.37	3.60

LPL SERIES-LONG LIFE STANDBY

LPL12-33 (12V35Ah)

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

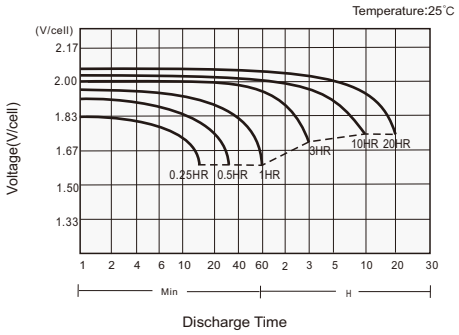
GENERAL FEATURES

- 10~12 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

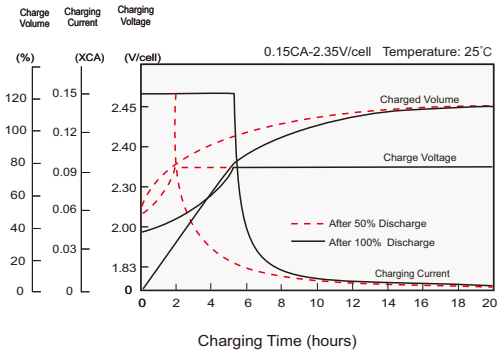
STANDARDS

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

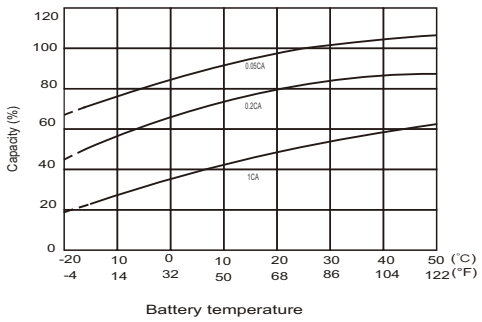
Discharge Characteristics



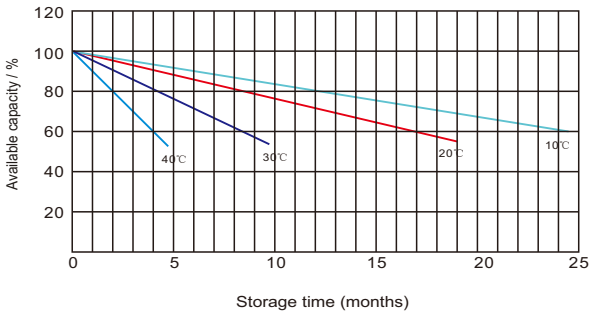
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Data above is recommended and the picture is only for battery effect display, Leoch reserve the final right of explanation.

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Publication No.:LB-LPL12-33-PD-101950-V1.0-20240821