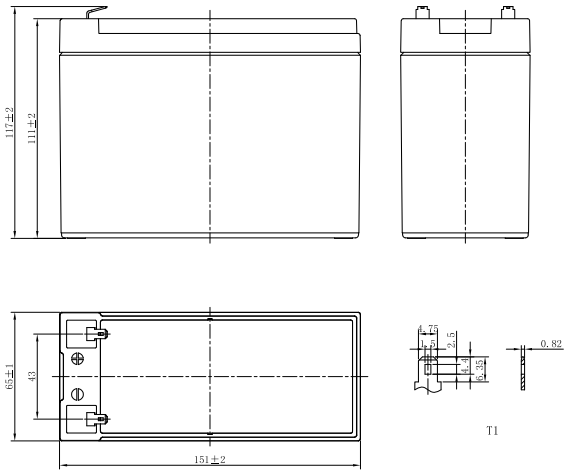
LP SERIES-GENERAL PURPOSE

LP12-10H (12V10Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{20},1.75V/cell	10Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	111mm (4.37inches)
	Total Height	117mm (4.61inches)
Approx Weight		3.07kg (6.77lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		280A
Internal Resistance (25℃)		Approx 20 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	2.35-2.45V/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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.2	22.8	17.8	14.3	10.4	7.60	6.10	4.40	3.46	2.47	1.97	1.68	1.43	1.13	0.924	0.489
1.80V/cell	36.8	24.2	18.6	14.9	10.8	7.80	6.30	4.50	3.52	2.51	2.00	1.70	1.46	1.15	0.937	0.495
1.75V/cell	38.8	25.2	19.2	15.3	11.0	7.90	6.40	4.60	3.59	2.55	2.02	1.72	1.47	1.16	0.946	0.500
1.70V/cell	40.6	26.2	19.9	15.7	11.3	8.10	6.50	4.70	3.64	2.59	2.05	1.74	1.49	1.17	0.955	0.504
1.67V/cell	42.0	26.9	20.4	16.1	11.5	8.20	6.60	4.80	3.68	2.61	2.07	1.76	1.50	1.18	0.962	0.508
1.60V/cell	44.6	28.0	21.1	16.5	11.8	8.40	6.80	4.90	3.75	2.66	2.11	1.79	1.53	1.20	0.975	0.514
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	64.7	43.4	34.0	27.6	20.2	14.6	11.9	8.70	6.77	4.86	3.88	3.31	2.84	2.24	1.84	0.978
1.80V/cell	68.9	45.7	35.5	28.5	20.7	15.0	12.2	8.80	6.88	4.93	3.93	3.35	2.88	2.27	1.86	0.989
1.75V/cell	71.8	47.2	36.4	29.1	21.1	15.3	12.4	9.00	6.98	4.99	3.98	3.39	2.91	2.29	1.88	1.00
1.70V/cell	74.5	48.7	37.4	29.8	21.6	15.5	12.6	9.10	7.07	5.06	4.02	3.43	2.94	2.32	1.90	1.01
1.67V/cell	76.4	49.8	38.2	30.4	21.9	15.7	12.7	9.20	7.13	5.10	4.06	3.46	2.96	2.33	1.91	1.02
1.60V/cell	79.5	51.3	39.2	31.1	22.4	16.0	13.0	9.40	7.25	5.18	4.12	3.50	3.00	2.36	1.93	1.03

LP SERIES-GENERAL PURPOSE

LP12-10H (12V10Ah)

LEOCH BATTERY

APPLICATIONS

- 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

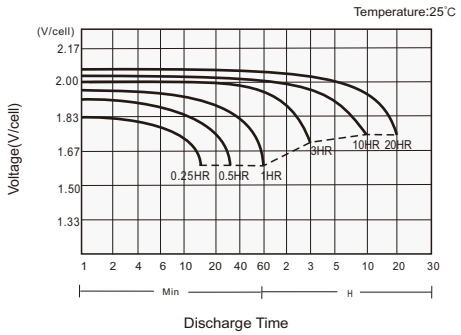
GENERAL FEATURES

- 5 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

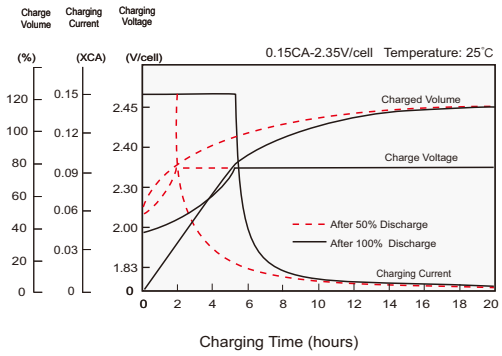
STANDARDS

- 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

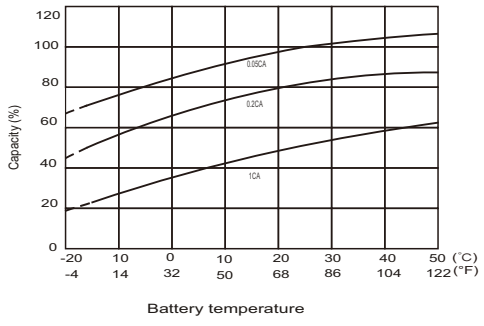
Discharge Characteristics



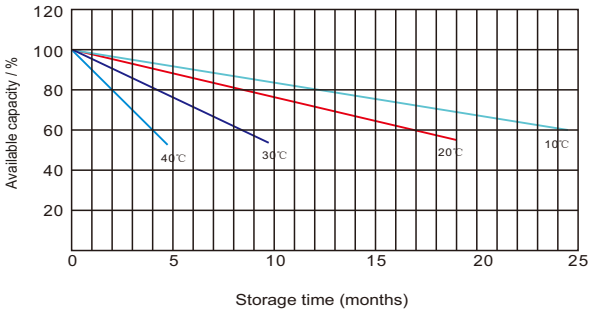
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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Publication No.:LB-LP12-10H-PD-EN-V2.1-20240515