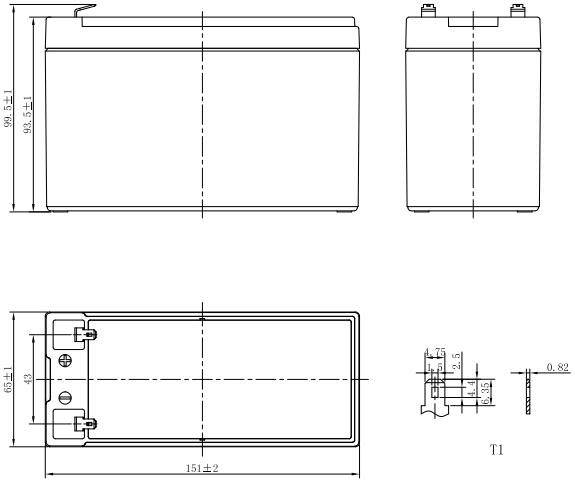
LP SERIES-GENERAL PURPOSE

LP12-7.0E (12V6.0Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{20},1.75V/cell	6.0Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight		1.81kg (3.99lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		168A
Internal Resistance (25℃)		Approx 27 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	16.7	12.3	9.93	8.10	6.02	4.42	3.61	2.64	2.07	1.49	1.18	1.01	0.860	0.676	0.546	0.294
1.80V/cell	18.1	12.9	10.3	8.35	6.18	4.51	3.68	2.68	2.10	1.51	1.20	1.02	0.871	0.684	0.552	0.297
1.75V/cell	19.6	13.6	10.7	8.60	6.32	4.60	3.75	2.73	2.13	1.53	1.21	1.03	0.882	0.692	0.559	0.300
1.70V/cell	21.1	14.2	11.1	8.86	6.47	4.69	3.81	2.77	2.17	1.55	1.23	1.05	0.894	0.701	0.566	0.303
1.67V/cell	21.9	14.6	11.3	9.01	6.56	4.74	3.85	2.80	2.19	1.57	1.24	1.05	0.900	0.706	0.570	0.305
1.60V/cell	23.9	15.5	11.8	9.36	6.76	4.87	3.94	2.86	2.23	1.60	1.26	1.07	0.916	0.718	0.579	0.309
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	31.8	23.5	19.1	15.6	11.6	8.58	7.03	5.15	4.05	2.92	2.33	1.98	1.70	1.34	1.08	0.588
1.80V/cell	34.3	24.6	19.7	16.0	11.9	8.72	7.14	5.22	4.10	2.96	2.36	2.01	1.72	1.35	1.10	0.594
1.75V/cell	36.8	25.7	20.3	16.4	12.1	8.86	7.24	5.29	4.15	3.00	2.39	2.03	1.74	1.37	1.11	0.600
1.70V/cell	39.3	26.7	20.9	16.8	12.3	8.99	7.34	5.37	4.21	3.03	2.41	2.06	1.76	1.39	1.12	0.606
1.67V/cell	40.7	27.3	21.3	17.1	12.5	9.07	7.40	5.41	4.24	3.06	2.43	2.07	1.77	1.40	1.13	0.610
1.60V/cell	43.9	28.8	22.1	17.6	12.8	9.26	7.54	5.50	4.31	3.11	2.47	2.10	1.80	1.42	1.15	0.619

LP SERIES-GENERAL PURPOSE

LP12-7.0E (12V6.0Ah)

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

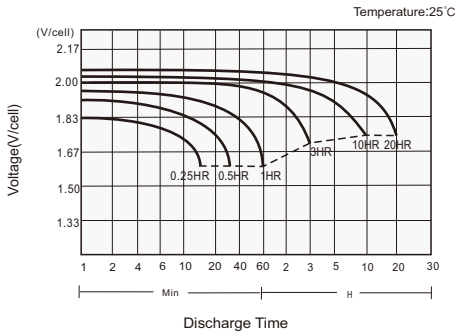
GENERAL FEATURES

- 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

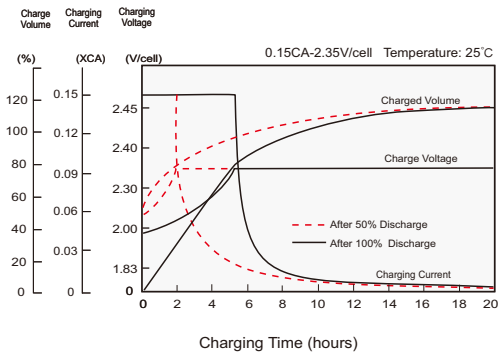
STANDARDS

- 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

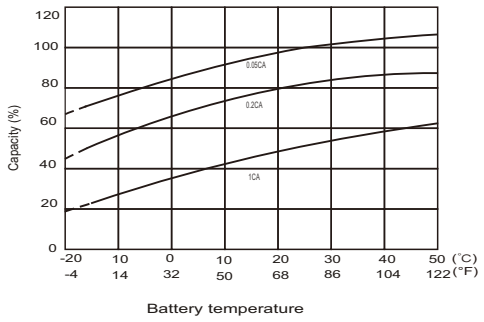
Discharge Characteristics



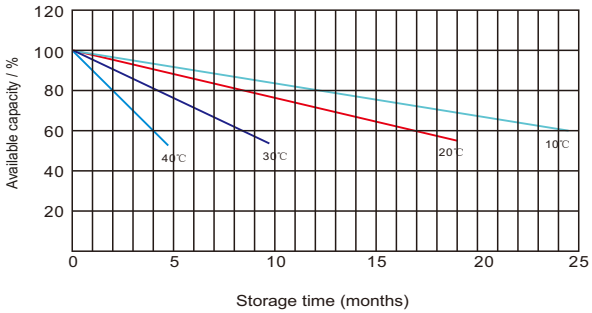
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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