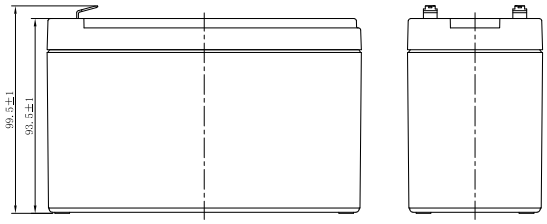
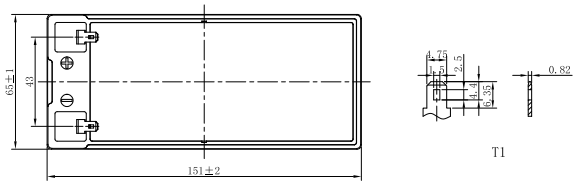
LP SERIES-GENERAL PURPOSE

LP12-7.2 (12V7.2Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{20},1.75V/cell	7.2Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight		2.28kg (5.03lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		201.6A
Internal Resistance (25℃)		Approx 23 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	23.4	15.8	11.8	9.70	7.10	5.19	4.25	3.12	2.47	1.78	1.42	1.21	1.04	0.814	0.665	0.352
1.80V/cell	25.2	16.8	12.4	10.1	7.32	5.34	4.36	3.18	2.52	1.80	1.44	1.22	1.05	0.826	0.674	0.356
1.75V/cell	26.6	17.5	12.8	10.3	7.52	5.45	4.44	3.24	2.55	1.83	1.46	1.24	1.07	0.834	0.681	0.360
1.70V/cell	27.8	18.1	13.2	10.7	7.71	5.57	4.53	3.29	2.59	1.86	1.48	1.26	1.08	0.843	0.688	0.363
1.67V/cell	28.8	18.7	13.5	10.8	7.84	5.66	4.60	3.34	2.62	1.88	1.49	1.27	1.08	0.850	0.693	0.366
1.60V/cell	30.5	19.5	14.0	11.1	8.05	5.80	4.70	3.41	2.68	1.92	1.52	1.29	1.09	0.862	0.702	0.370

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	44.4	30.1	22.6	18.6	13.7	10.1	8.28	6.09	4.83	3.49	2.79	2.38	2.04	1.61	1.32	0.704
1.80V/cell	47.2	31.8	23.5	19.2	14.1	10.3	8.45	6.19	4.91	3.54	2.83	2.41	2.07	1.63	1.33	0.712
1.75V/cell	49.2	32.8	24.2	19.7	14.4	10.5	8.59	6.29	4.98	3.59	2.86	2.44	2.09	1.65	1.35	0.720
1.70V/cell	51.1	33.9	24.9	20.2	14.7	10.7	8.72	6.37	5.04	3.64	2.90	2.47	2.11	1.67	1.36	0.726
1.67V/cell	52.3	34.7	25.3	20.4	14.9	10.8	8.83	6.44	5.09	3.67	2.92	2.49	2.13	1.68	1.37	0.732
1.60V/cell	54.4	35.7	26.0	21.0	15.3	11.0	9.00	6.56	5.16	3.72	2.97	2.52	2.16	1.70	1.39	0.739

LP SERIES-GENERAL PURPOSE

LP12-7.2 (12V7.2Ah)

LEOCH BATTERY

APPLICATIONS

- All purpose
- 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

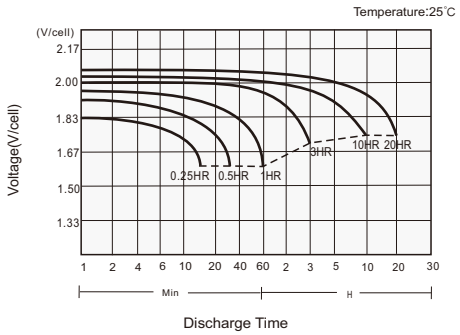
GENERAL FEATURES

- 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

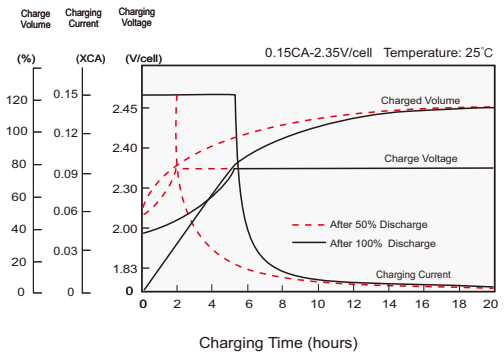
STANDARDS

- 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

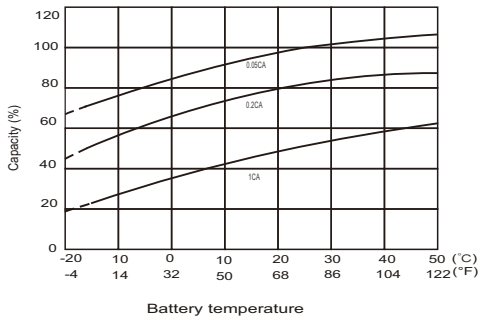
Discharge Characteristics



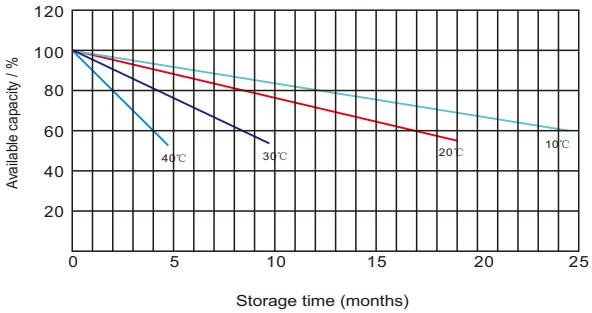
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Publication No.:LB-LP12-7.2-PD-EN-V2.0-20240314