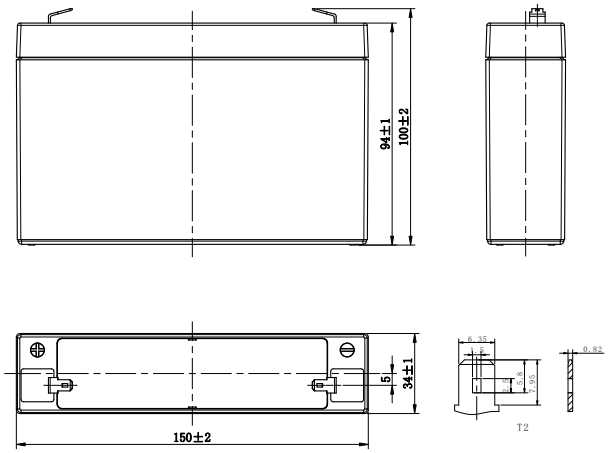
LCP SERIES-PUNCH BATTERY

LCP6-24W (6V24W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		6V
Nominal Rate (25℃)	W_{15},1.67V/cell	24W/cell
Nominal Capacity (25℃)	C_{20},1.75V/cell	7Ah
Dimension	Length	150mm(5.91inches)
	Width	34mm(1.34inches)
	Container Height	94mm(3.70inches)
	Total Height	100mm(3.94inches)
Approx Weight		1.05kg(2.31lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		196A
Internal Resistance (25℃)		Approx 16 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). LCP 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	23.6	15.1	11.5	9.38	6.90	5.05	4.16	3.05	2.40	1.73	1.38	1.17	1.00	0.791	0.647	0.342
1.80V/cell	25.4	16.0	12.1	9.75	7.12	5.18	4.26	3.11	2.44	1.76	1.40	1.19	1.02	0.802	0.656	0.346
1.75V/cell	26.8	16.7	12.5	10.0	7.30	5.29	4.35	3.17	2.48	1.79	1.42	1.20	1.03	0.811	0.662	0.350
1.70V/cell	28.0	17.4	12.9	10.3	7.49	5.41	4.43	3.22	2.52	1.81	1.44	1.22	1.04	0.820	0.669	0.353
1.67V/cell	29.0	17.8	13.2	10.5	7.62	5.50	4.50	3.27	2.55	1.83	1.45	1.23	1.05	0.826	0.674	0.356
1.60V/cell	30.8	18.6	13.7	10.8	7.83	5.64	4.60	3.34	2.60	1.86	1.48	1.25	1.07	0.838	0.682	0.359

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	46.9	30.2	23.2	19.0	14.0	10.3	8.10	5.96	4.69	3.40	2.72	2.32	1.99	1.57	1.29	0.684
1.80V/cell	50.0	31.8	24.2	19.6	14.4	10.5	8.27	6.06	4.77	3.45	2.75	2.35	2.02	1.59	1.30	0.692
1.75V/cell	52.1	32.9	24.8	20.1	14.7	10.7	8.41	6.15	4.84	3.49	2.78	2.37	2.04	1.61	1.31	0.700
1.70V/cell	54.1	33.9	25.5	20.5	15.0	10.9	8.53	6.24	4.90	3.54	2.82	2.40	2.06	1.62	1.33	0.706
1.67V/cell	55.4	34.8	26.0	20.9	15.2	11.0	8.65	6.31	4.94	3.57	2.84	2.42	2.07	1.63	1.34	0.711
1.60V/cell	57.6	35.7	26.8	21.4	15.5	11.2	8.80	6.42	5.03	3.62	2.88	2.45	2.10	1.65	1.35	0.719

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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

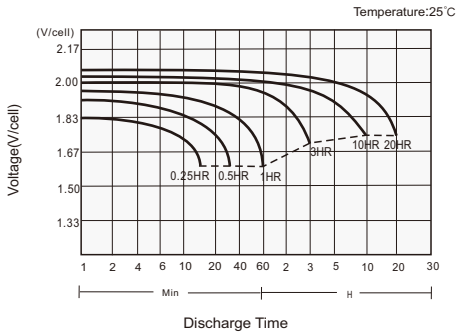
GENERAL FEATURES

- 5 years design life (25℃)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Automatic grid punch manufacturing process and unique technology optimizes power capacity,cell consistency, and long-term reliability and service life

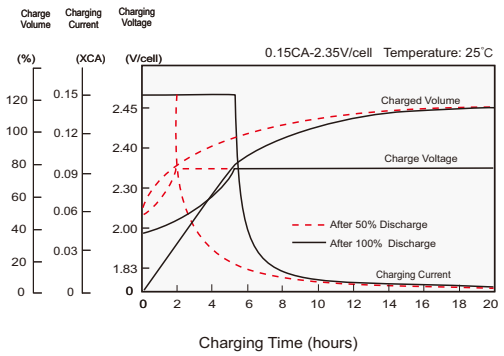
STANDARDS

- 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

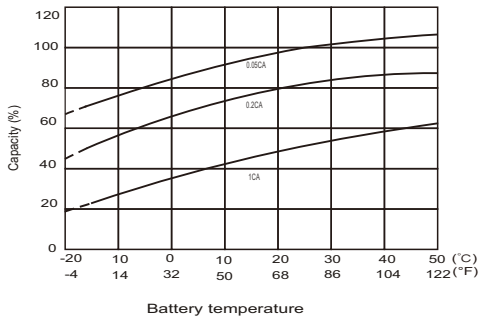
Discharge Characteristics



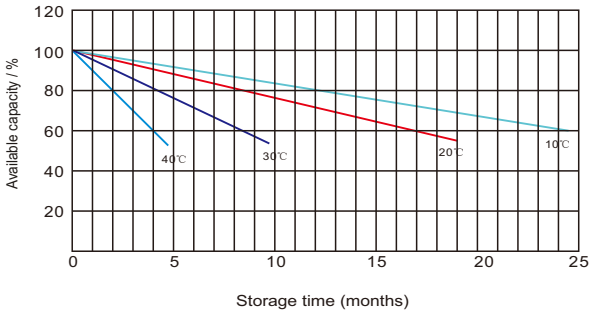
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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