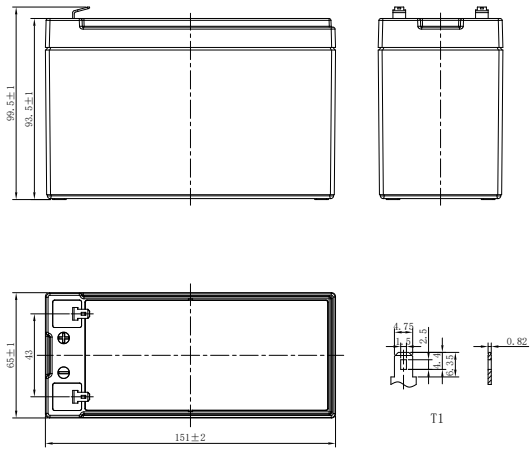
LCP SERIES-PUNCH BATTERY

LCP12-32W (12V32W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	32W/cell
Nominal Capacity (25℃)	C_{20},1.75V/cell	8Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight		2.22kg (4.89lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		224A
Internal Resistance (25℃)		Approx 26 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	26.9	18.2	14.0	11.2	8.22	5.98	4.84	3.70	2.84	1.98	1.57	1.34	1.15	0.900	0.739	0.391
1.80V/cell	28.9	19.2	14.7	11.6	8.48	6.14	4.96	3.78	2.89	2.01	1.60	1.36	1.17	0.920	0.749	0.396
1.75V/cell	30.4	20.0	15.2	12.0	8.70	6.27	5.06	3.85	2.95	2.04	1.62	1.38	1.18	0.930	0.757	0.400
1.70V/cell	31.9	20.8	15.7	12.3	8.92	6.41	5.15	3.92	2.99	2.07	1.64	1.40	1.19	0.940	0.764	0.403
1.67V/cell	33.0	21.4	16.0	12.5	9.07	6.51	5.23	3.97	3.02	2.09	1.66	1.41	1.20	0.940	0.770	0.406
1.60V/cell	35.0	22.3	16.6	12.9	9.33	6.68	5.35	4.05	3.08	2.13	1.69	1.43	1.22	0.960	0.780	0.411

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	55.6	36.9	28.6	23.0	17.0	12.4	10.1	7.23	5.56	3.88	3.10	2.65	2.27	1.79	1.47	0.782
1.80V/cell	59.2	38.9	29.8	23.8	17.4	12.7	10.3	7.36	5.65	3.94	3.14	2.68	2.30	1.82	1.49	0.791
1.75V/cell	61.7	40.1	30.6	24.3	17.8	12.9	10.5	7.47	5.74	3.99	3.18	2.71	2.33	1.84	1.50	0.800
1.70V/cell	64.0	41.5	31.5	24.9	18.2	13.2	10.6	7.58	5.81	4.04	3.22	2.74	2.35	1.85	1.52	0.807
1.67V/cell	65.7	42.4	32.0	25.4	18.5	13.3	10.8	7.66	5.86	4.08	3.24	2.76	2.37	1.87	1.53	0.813
1.60V/cell	68.3	43.6	33.0	26.0	18.9	13.6	10.9	7.79	5.96	4.14	3.29	2.80	2.40	1.89	1.54	0.822

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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

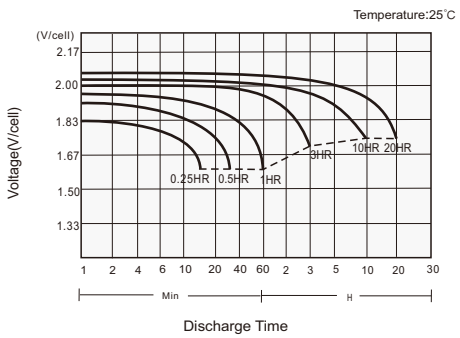
GENERAL FEATURES

- 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

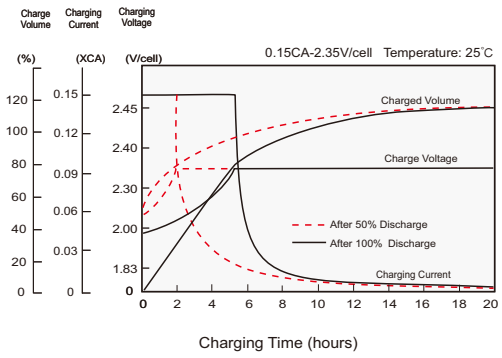
STANDARDS

- 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

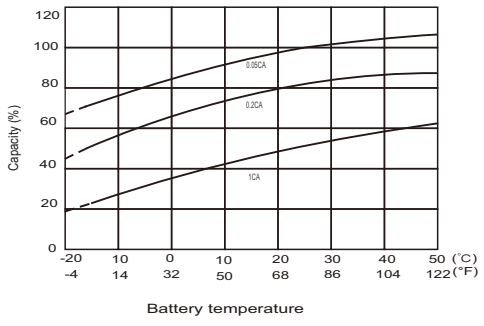
Discharge Characteristics



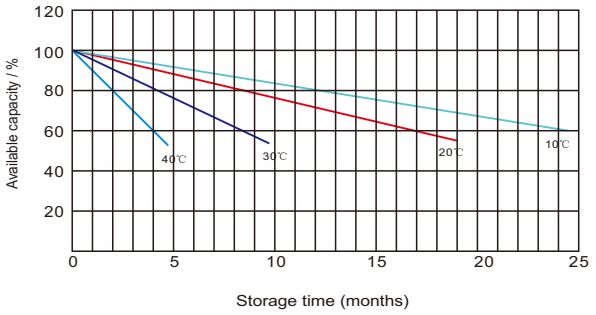
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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