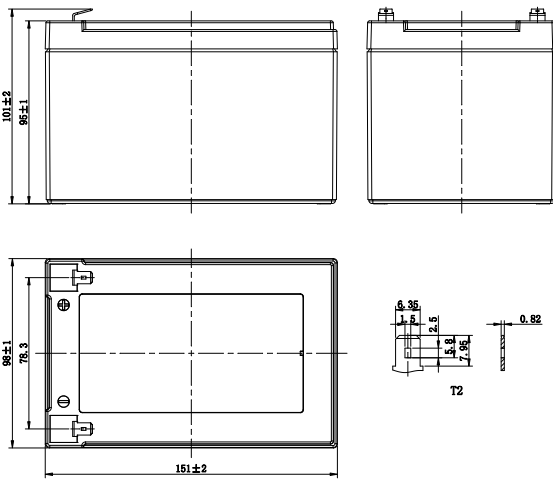


LCP SERIES-PUNCH BATTERY

LCP12-42W (12V42W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W ₁₅ , 1.67V/cell	42W/cell
Nominal Capacity (25°C)	C ₂₀ , 1.75V/cell	12Ah
Dimension	Length	151mm (5.94inches)
	Width	98mm (3.86inches)
	Container Height	95mm (3.74inches)
	Total Height	101mm (3.98inches)
Approx Weight	3.48kg (7.67lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	336A	
Internal Resistance (25°C)	Approx 17 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤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.	
Self Discharge		

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	35.8	24.7	19.4	15.8	11.6	8.50	7.14	5.23	4.11	2.96	2.36	2.01	1.72	1.36	1.11	0.587
1.80V/cell	38.5	26.2	20.4	16.4	12.0	8.72	7.31	5.34	4.18	3.01	2.40	2.04	1.75	1.38	1.12	0.593
1.75V/cell	40.5	27.3	21.0	16.9	12.3	8.91	7.46	5.43	4.26	3.06	2.43	2.07	1.77	1.39	1.13	0.600
1.70V/cell	42.4	28.4	21.7	17.4	12.6	9.11	7.60	5.53	4.32	3.11	2.46	2.09	1.79	1.41	1.15	0.605
1.67V/cell	43.9	29.2	22.3	17.7	12.8	9.26	7.71	5.60	4.37	3.14	2.49	2.11	1.81	1.42	1.16	0.610
1.60V/cell	46.6	30.4	23.0	18.3	13.2	9.49	7.89	5.72	4.46	3.19	2.53	2.15	1.83	1.44	1.17	0.616
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	67.7	47.1	37.4	30.4	22.5	16.5	13.9	10.2	8.04	5.83	4.65	3.97	3.41	2.69	2.20	1.17
1.80V/cell	72.1	49.5	39.0	31.5	23.1	16.9	14.2	10.4	8.17	5.91	4.71	4.02	3.45	2.73	2.23	1.19
1.75V/cell	75.1	51.2	40.0	32.2	23.5	17.2	14.4	10.5	8.30	5.99	4.77	4.07	3.49	2.75	2.25	1.20
1.70V/cell	77.9	52.8	41.1	32.9	24.0	17.5	14.6	10.7	8.40	6.07	4.83	4.12	3.53	2.78	2.27	1.21
1.67V/cell	79.9	54.0	42.0	33.5	24.4	17.7	14.8	10.8	8.48	6.12	4.87	4.15	3.56	2.80	2.29	1.22
1.60V/cell	83.1	55.6	43.1	34.3	24.9	18.0	15.1	11.0	8.62	6.21	4.94	4.20	3.60	2.84	2.32	1.23

LCP SERIES-PUNCH BATTERY

LCP12-42W (12V42W)



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

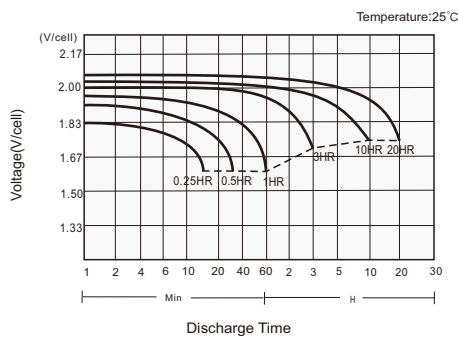
GENERAL FEATURES

- 5 years design life (25°C)
- 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

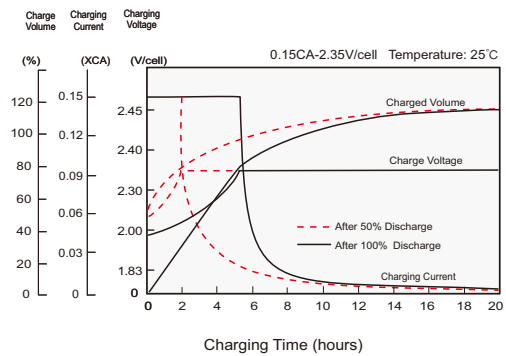
STANDARDS

- 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

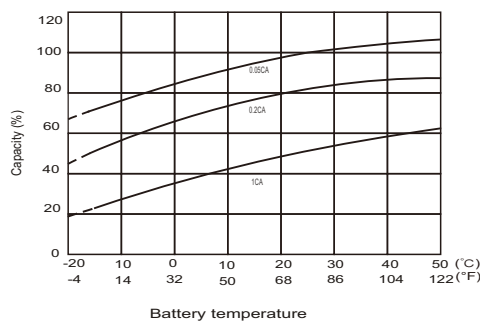
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

