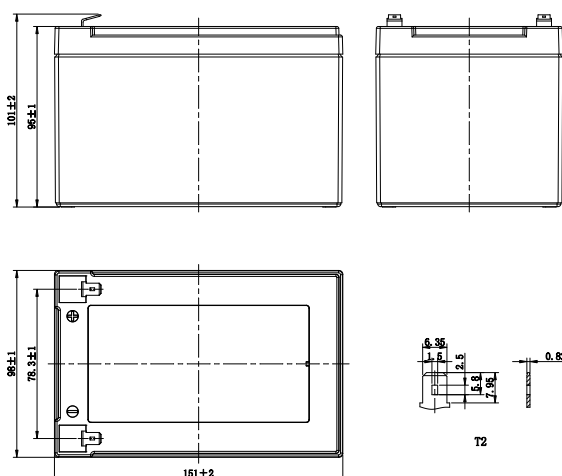


LP SERIES-GENERAL PURPOSE

LP12-10 (12V10Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ : 1.75V/cell	10Ah
Dimension	Length	151mm(5.94inches)
	Width	98mm(3.86inches)
	Container Height	95mm(3.74inches)
	Total Height	101mm(3.98inches)
Approx Weight	3.16kg(6.97lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	280A	
Internal Resistance (25°C)	Approx 21 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%
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	27.2	20.0	15.9	13.0	9.64	7.07	5.78	4.35	3.41	2.45	1.95	1.66	1.42	1.11	0.924	0.490
1.80V/cell	29.5	21.0	16.5	13.4	9.88	7.21	5.89	4.43	3.46	2.56	2.02	1.68	1.44	1.14	0.937	0.495
1.75V/cell	31.9	22.1	17.1	13.8	10.1	7.36	6.07	4.50	3.55	2.63	2.07	1.72	1.47	1.16	0.946	0.500
1.70V/cell	34.6	23.4	17.8	14.2	10.4	7.54	6.29	4.62	3.66	2.71	2.12	1.76	1.50	1.18	0.955	0.505
1.67V/cell	36.1	24.2	18.4	14.6	10.7	7.71	6.42	4.70	3.72	2.75	2.15	1.78	1.52	1.19	0.962	0.508
1.60V/cell	39.8	26.2	19.7	15.6	11.3	8.11	6.73	4.91	3.88	2.85	2.22	1.84	1.56	1.22	0.975	0.516
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	51.7	38.3	30.5	24.9	18.6	13.7	11.2	8.50	6.68	4.82	3.84	3.27	2.81	2.21	1.84	0.980
1.80V/cell	55.8	40.0	31.5	25.6	19.0	13.9	11.4	8.62	6.76	5.00	3.96	3.31	2.84	2.25	1.86	0.990
1.75V/cell	59.8	41.7	32.5	26.2	19.4	14.2	11.6	8.73	6.86	5.11	4.04	3.37	2.88	2.28	1.88	1.00
1.70V/cell	63.9	43.5	33.5	26.9	19.7	14.4	12.0	8.85	7.04	5.24	4.13	3.43	2.94	2.32	1.89	1.01
1.67V/cell	66.3	44.5	34.3	27.3	20.0	14.5	12.2	8.97	7.13	5.30	4.17	3.47	2.97	2.34	1.91	1.02
1.60V/cell	71.5	47.6	35.9	28.6	20.8	15.1	12.6	9.30	7.38	5.47	4.29	3.56	3.04	2.39	1.93	1.03

LP SERIES-GENERAL PURPOSE

LP12-10 (12V10Ah)



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

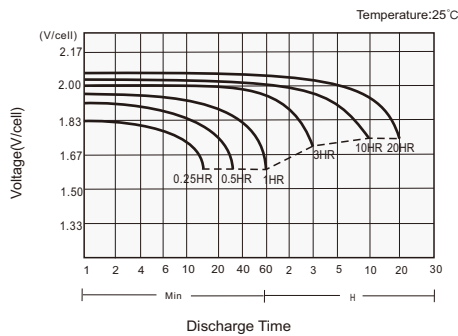
GENERAL FEATURES

- 5 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

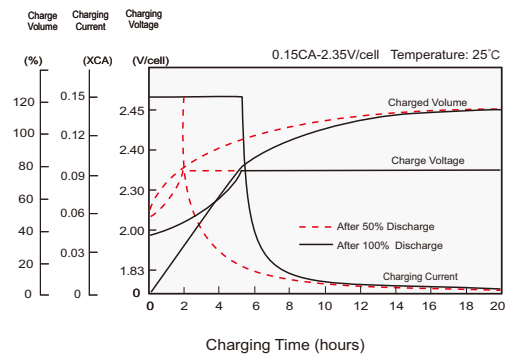
STANDARDS

- 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

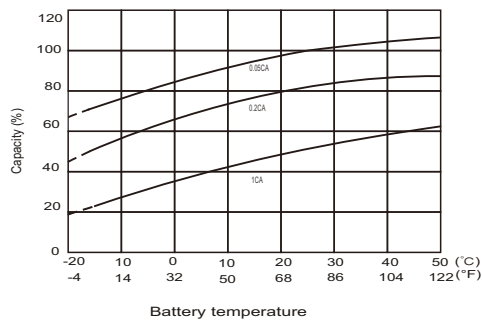
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

