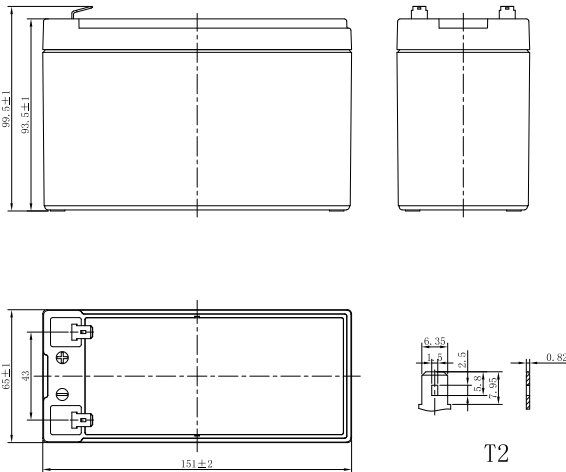


LP SERIES-GENERAL PURPOSE

LP12-9.0 (12V9Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ : 1.75V/cell 9Ah	
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.35kg (5.18lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	252A	
Internal Resistance (25°C)	Approx 24 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). 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.	
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	23.5	17.3	13.7	11.2	8.33	6.12	5.12	3.80	3.03	2.18	1.75	1.49	1.28	1.00	0.818	0.440
1.80V/cell	25.5	18.2	14.3	11.6	8.54	6.24	5.21	3.87	3.08	2.22	1.78	1.51	1.29	1.01	0.828	0.445
1.75V/cell	27.6	19.1	14.8	11.9	8.75	6.36	5.31	3.93	3.13	2.25	1.80	1.53	1.31	1.03	0.838	0.450
1.70V/cell	29.6	20.0	15.3	12.2	8.90	6.48	5.40	4.00	3.18	2.28	1.83	1.55	1.33	1.04	0.848	0.454
1.67V/cell	30.9	20.5	15.6	12.5	9.10	6.56	5.46	4.03	3.20	2.30	1.84	1.56	1.34	1.05	0.854	0.457
1.60V/cell	33.6	21.7	16.4	12.9	9.30	6.73	5.59	4.12	3.27	2.35	1.88	1.59	1.36	1.06	0.867	0.464
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	44.7	33.1	26.4	21.6	16.1	11.9	10.0	7.43	5.93	4.29	3.45	2.94	2.52	1.99	1.63	0.881
1.80V/cell	48.2	34.6	27.3	22.1	16.4	12.1	10.1	7.53	6.01	4.35	3.50	2.98	2.55	2.01	1.64	0.890
1.75V/cell	51.7	36.1	28.1	22.7	16.8	12.3	10.3	7.63	6.09	4.40	3.54	3.01	2.58	2.03	1.66	0.899
1.70V/cell	55.2	37.6	29.0	23.3	17.1	12.4	10.4	7.74	6.17	4.46	3.58	3.05	2.61	2.06	1.68	0.909
1.67V/cell	57.3	38.5	29.5	23.6	17.3	12.6	10.5	7.79	6.22	4.49	3.60	3.07	2.63	2.07	1.69	0.914
1.60V/cell	61.8	40.4	30.6	24.3	17.7	12.8	10.7	7.90	6.32	4.57	3.66	3.12	2.67	2.10	1.72	0.927

LP SERIES-GENERAL PURPOSE

LP12-9.0 (12V9Ah)



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

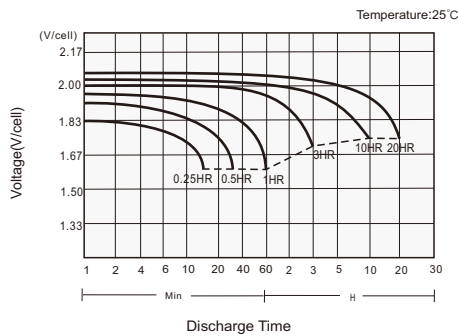
GENERAL FEATURES

- 5 years design life (25°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

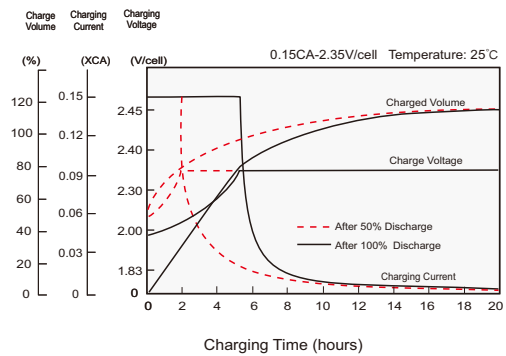
STANDARDS

- 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

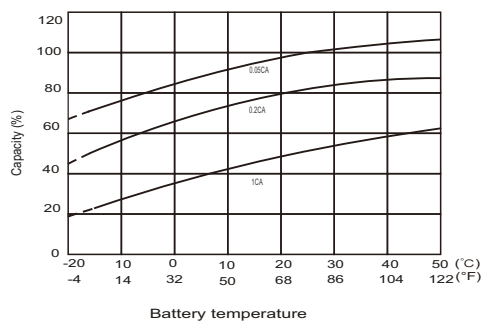
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

