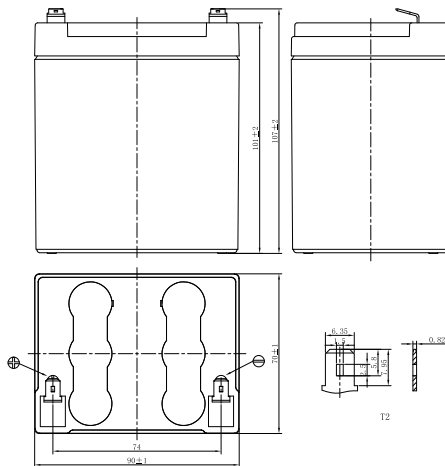


LP SERIES-GENERAL PURPOSE

LP12-6.0 (12V6.0Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ : 1.75V/cell	6.0Ah
Dimension	Length	90mm (3.54inches)
	Width	70mm (2.76inches)
	Container Height	101mm (3.98inches)
	Total Height	107mm (4.21inches)
Approx Weight	1.82kg (4.01lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	168A	
Internal Resistance (25°C)	Approx 20 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	
Effect of temp. to Capacity	40°C (104°F)	103%
	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	21.8	14.4	11.0	8.91	6.51	4.68	3.78	2.72	2.11	1.49	1.18	1.01	0.860	0.680	0.555	0.293
1.80V/cell	23.4	15.3	11.6	9.26	6.71	4.81	3.87	2.78	2.14	1.52	1.20	1.02	0.870	0.690	0.562	0.297
1.75V/cell	24.7	15.9	12.0	9.52	6.88	4.91	3.95	2.83	2.18	1.54	1.21	1.03	0.880	0.700	0.567	0.300
1.70V/cell	25.8	16.5	12.4	9.80	7.06	5.02	4.02	2.88	2.22	1.57	1.23	1.05	0.890	0.700	0.573	0.302
1.67V/cell	26.7	17.0	12.7	10.0	7.18	5.10	4.08	2.92	2.24	1.58	1.24	1.06	0.900	0.710	0.577	0.305
1.60V/cell	28.4	17.7	13.1	10.3	7.38	5.23	4.17	2.98	2.29	1.61	1.26	1.07	0.920	0.720	0.585	0.308

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	41.2	27.4	21.1	17.2	12.6	9.09	7.34	5.32	4.12	2.94	2.33	1.98	1.70	1.34	1.10	0.587
1.80V/cell	43.9	28.8	22.0	17.7	12.9	9.30	7.50	5.41	4.19	2.98	2.36	2.01	1.73	1.36	1.12	0.593
1.75V/cell	45.7	29.8	22.6	18.1	13.2	9.46	7.63	5.49	4.25	3.02	2.39	2.03	1.74	1.38	1.13	0.600
1.70V/cell	47.4	30.8	23.2	18.6	13.5	9.64	7.74	5.57	4.30	3.06	2.41	2.06	1.76	1.39	1.14	0.605
1.67V/cell	48.6	31.4	23.7	18.9	13.7	9.77	7.85	5.63	4.34	3.08	2.43	2.07	1.78	1.40	1.14	0.610
1.60V/cell	50.6	32.4	24.4	19.4	14.0	9.95	7.98	5.73	4.42	3.13	2.47	2.10	1.80	1.42	1.16	0.616

LP SERIES-GENERAL PURPOSE

LP12-6.0 (12V6.0Ah)



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

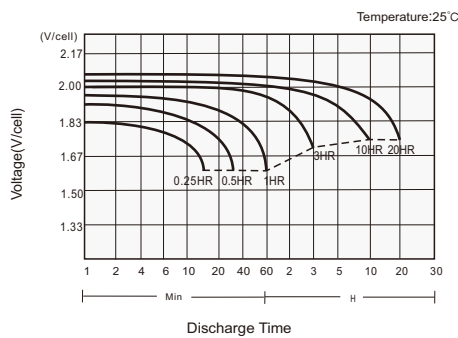
GENERAL FEATURES

- 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

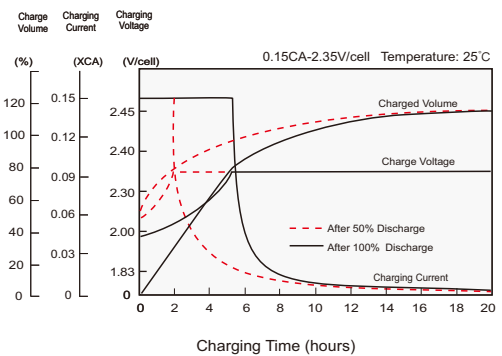
STANDARDS

- 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

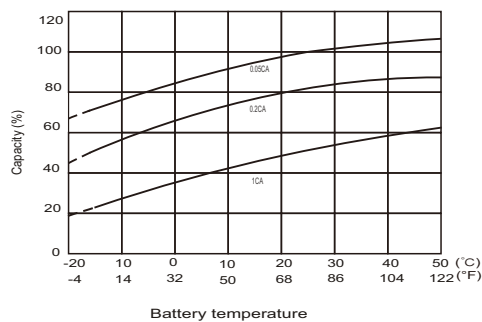
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

