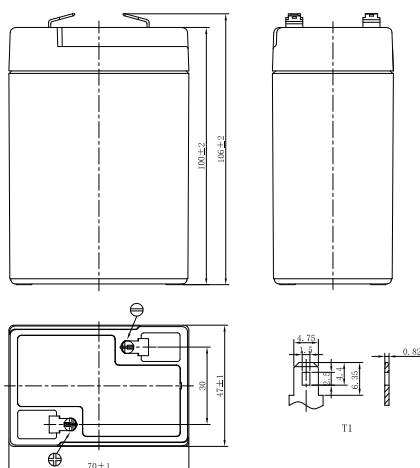


LP SERIES-GENERAL PURPOSE

LP6-4.5 (6V4.5Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	6V	
Nominal Capacity (25°C)	C ₂₀ , 1.75V/cell	4.5Ah
Dimension	Length	70mm (2.76inches)
	Width	47mm (1.85inches)
	Container Height	100mm (3.94inches)
	Total Height	106mm (4.17inches)
Approx Weight	0.74kg (1.63lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	126A	
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	14.7	10.3	8.05	6.71	4.94	3.56	2.88	2.09	1.61	1.14	0.886	0.754	0.646	0.509	0.416	0.220
1.80V/cell	15.8	10.9	8.44	6.97	5.09	3.65	2.95	2.13	1.64	1.15	0.899	0.765	0.656	0.516	0.421	0.223
1.75V/cell	16.7	11.4	8.72	7.17	5.22	3.73	3.01	2.17	1.67	1.17	0.911	0.775	0.663	0.522	0.426	0.225
1.70V/cell	17.5	11.8	9.02	7.38	5.36	3.82	3.07	2.21	1.69	1.19	0.923	0.785	0.671	0.527	0.430	0.227
1.67V/cell	18.1	12.2	9.24	7.53	5.45	3.88	3.12	2.24	1.71	1.20	0.932	0.792	0.677	0.531	0.433	0.229
1.60V/cell	19.2	12.7	9.55	7.75	5.60	3.97	3.19	2.29	1.75	1.22	0.949	0.805	0.687	0.539	0.439	0.231

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	27.9	19.6	15.4	12.9	9.54	6.90	5.61	4.08	3.15	2.23	1.75	1.49	1.28	1.01	0.826	0.440
1.80V/cell	29.8	20.7	16.1	13.4	9.79	7.06	5.73	4.16	3.20	2.27	1.77	1.51	1.30	1.02	0.837	0.445
1.75V/cell	31.1	21.4	16.5	13.7	10.0	7.19	5.82	4.22	3.25	2.30	1.79	1.53	1.31	1.03	0.844	0.450
1.70V/cell	32.4	22.1	17.0	14.0	10.2	7.32	5.91	4.28	3.29	2.33	1.81	1.54	1.32	1.04	0.853	0.454
1.67V/cell	33.3	22.6	17.3	14.2	10.4	7.42	5.99	4.33	3.32	2.35	1.82	1.55	1.33	1.05	0.858	0.457
1.60V/cell	35.1	23.5	17.8	14.6	10.6	7.56	6.10	4.40	3.37	2.38	1.85	1.58	1.35	1.06	0.868	0.462

LP SERIES-GENERAL PURPOSE

LP6-4.5 (6V4.5Ah)



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

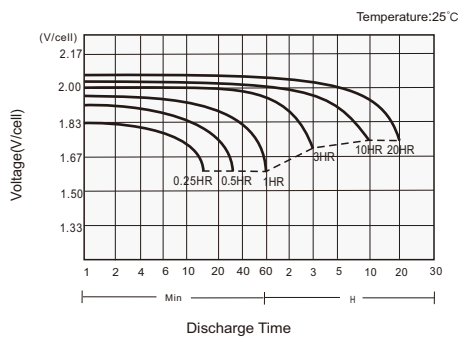
GENERAL FEATURES

- 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

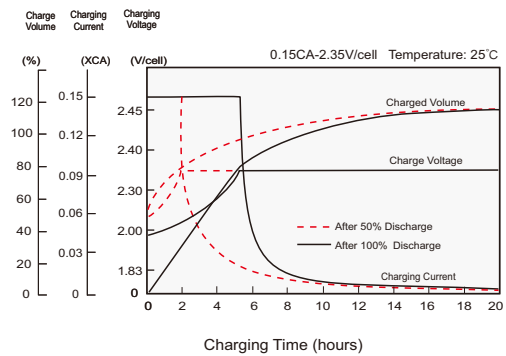
STANDARDS

- 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

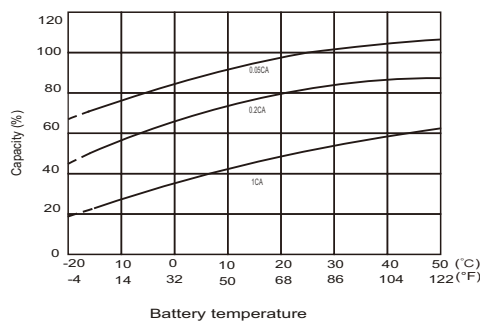
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

