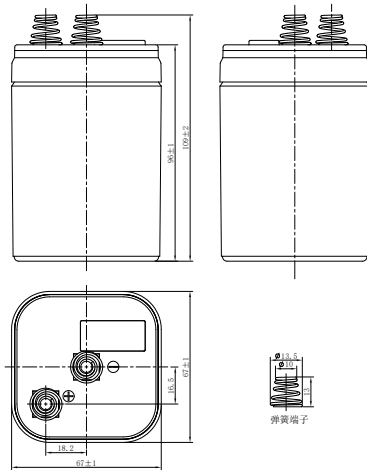


LP SERIES-GENERAL PURPOSE

LP6-4.5S (6V4.5Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	6V	
Nominal Capacity (25°C)	$C_{20}, 1.75V/cell$	4.5Ah
Dimension	Length	67mm (2.64inches)
	Width	67mm (2.64inches)
	Container Height	96mm (3.78inches)
	Total Height	109mm (4.29inches)
Approx Weight	0.78kg (1.72lbs)	
Terminal	Spring	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	126A	
Internal Resistance (25°C)	Approx 60 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	/	/	/	/	/	/	3.28	2.38	1.87	1.33	1.05	0.875	0.735	0.579	0.462	0.244
1.80V/cell	/	/	/	/	/	/	3.36	2.43	1.90	1.36	1.07	0.887	0.747	0.588	0.468	0.247
1.75V/cell	/	/	/	/	/	/	3.43	2.48	1.93	1.38	1.08	0.899	0.755	0.594	0.473	0.250
1.70V/cell	/	/	/	/	/	/	3.50	2.52	1.96	1.40	1.10	0.911	0.764	0.600	0.478	0.252
1.67V/cell	/	/	/	/	/	/	3.55	2.55	1.98	1.41	1.11	0.919	0.771	0.605	0.481	0.254
1.60V/cell	/	/	/	/	/	/	3.63	2.61	2.03	1.44	1.13	0.934	0.782	0.613	0.487	0.257

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	/	/	/	/	/	/	6.39	4.65	3.65	2.62	2.07	1.73	1.45	1.15	0.918	0.489
1.80V/cell	/	/	/	/	/	/	6.52	4.73	3.71	2.66	2.10	1.75	1.48	1.16	0.930	0.495
1.75V/cell	/	/	/	/	/	/	6.63	4.81	3.77	2.70	2.13	1.77	1.49	1.18	0.938	0.500
1.70V/cell	/	/	/	/	/	/	6.73	4.88	3.81	2.73	2.15	1.79	1.51	1.19	0.947	0.504
1.67V/cell	/	/	/	/	/	/	6.82	4.93	3.85	2.75	2.17	1.80	1.52	1.20	0.954	0.508
1.60V/cell	/	/	/	/	/	/	6.94	5.01	3.91	2.80	2.20	1.83	1.54	1.21	0.965	0.514

LP SERIES-GENERAL PURPOSE

LP6-4.5S (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

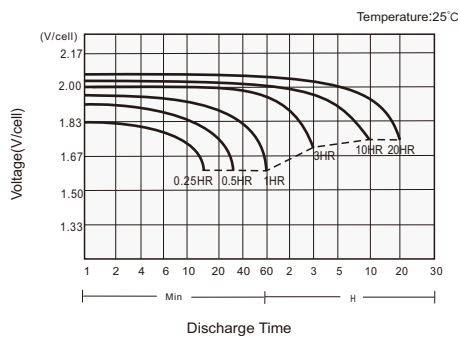
GENERAL FEATURES

- 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

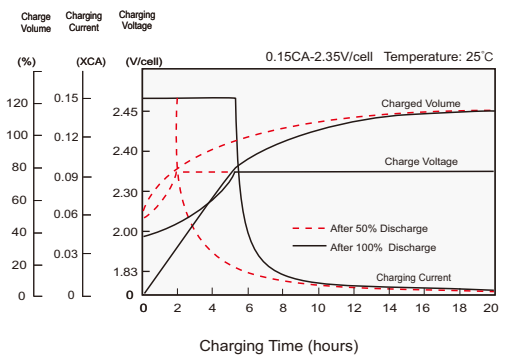
STANDARDS

- 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

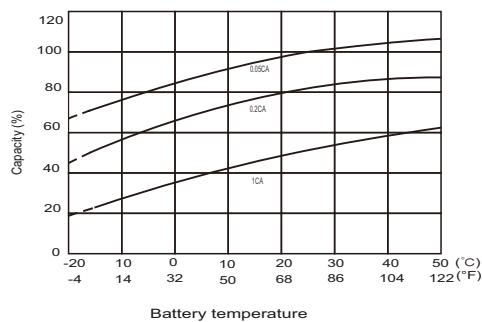
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

