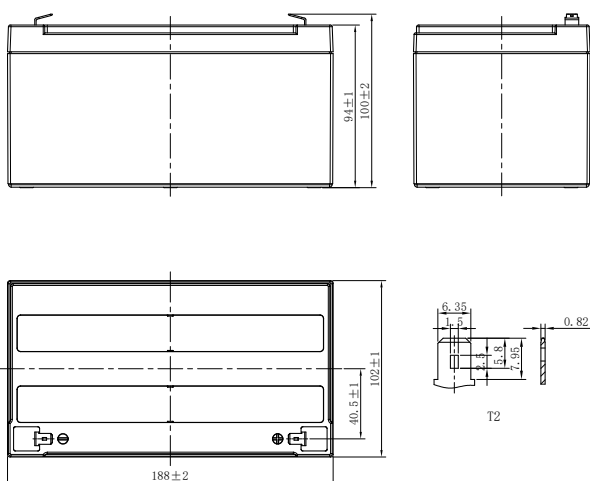


# LP SERIES-GENERAL PURPOSE

## LP24-8.0 (24V8.0Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	24V	
Nominal Capacity (25°C)	C <sub>20</sub> : 1.75V/cell	8.0Ah
Dimension	Length	188mm (7.40inches)
	Width	102mm (4.02inches)
	Container Height	94mm (3.70inches)
	Total Height	100mm (3.94inches)
Approx Weight	4.60kg (10.1lbs)	
Terminal	T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	224A	
Internal Resistance (25°C)	Approx 50 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	24.4	16.5	12.3	10.1	7.40	5.41	4.86	3.25	2.79	2.01	1.48	1.38	1.08	0.910	0.770	0.390
1.80V/cell	26.3	17.5	12.9	10.5	7.63	5.56	4.95	3.31	2.84	2.04	1.50	1.39	1.09	0.920	0.775	0.395
1.75V/cell	27.7	18.2	13.7	10.8	7.83	5.68	5.02	3.37	2.86	2.06	1.52	1.40	1.11	0.930	0.787	0.412
1.70V/cell	29.0	19.2	14.5	11.1	8.03	5.80	5.08	3.43	2.88	2.08	1.54	1.41	1.12	0.940	0.795	0.421
1.67V/cell	30.0	19.5	14.8	11.3	8.17	5.90	5.10	3.48	2.91	2.09	1.55	1.42	1.13	0.940	0.800	0.432
1.60V/cell	31.8	20.7	15.4	11.6	8.39	6.04	5.20	3.55	2.93	2.13	1.58	1.44	1.14	0.950	0.816	0.437
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	46.2	31.5	23.8	19.4	14.3	10.5	9.70	6.34	5.58	4.03	2.91	2.74	2.13	1.82	1.53	0.784
1.80V/cell	49.2	33.1	24.7	20.0	14.7	10.7	9.87	6.45	5.66	4.07	2.95	2.78	2.16	1.84	1.55	0.794
1.75V/cell	51.3	34.2	26.0	20.5	15.0	10.9	10.0	6.55	5.70	4.12	2.98	2.81	2.18	1.86	1.58	0.827
1.70V/cell	53.2	35.6	27.2	21.0	15.3	11.1	10.1	6.64	5.74	4.16	3.02	2.83	2.20	1.87	1.59	0.843
1.67V/cell	54.5	36.1	27.7	21.3	15.5	11.3	10.2	6.71	5.77	4.18	3.04	2.85	2.22	1.88	1.60	0.849
1.60V/cell	57.1	37.7	28.4	21.9	15.9	11.5	10.3	6.83	5.81	4.25	3.09	2.87	2.25	1.90	1.63	0.874

# LP SERIES-GENERAL PURPOSE

## LP24-8.0 (24V8.0Ah)



### 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

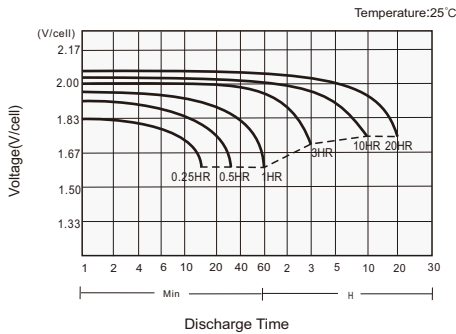
### GENERAL FEATURES

- 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

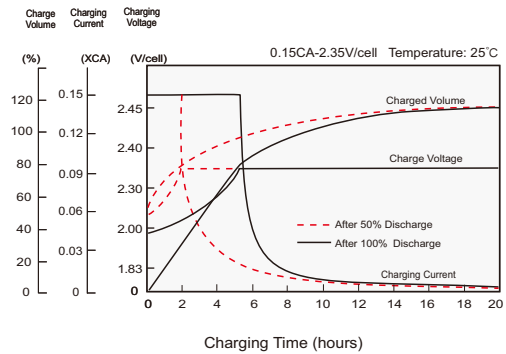
### STANDARDS

- 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

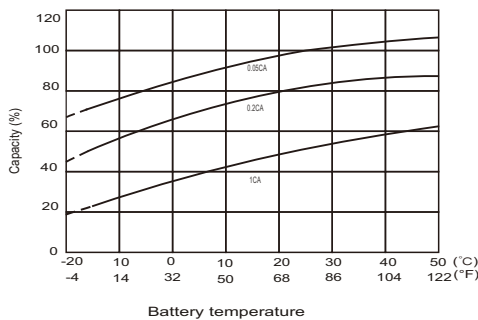
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

