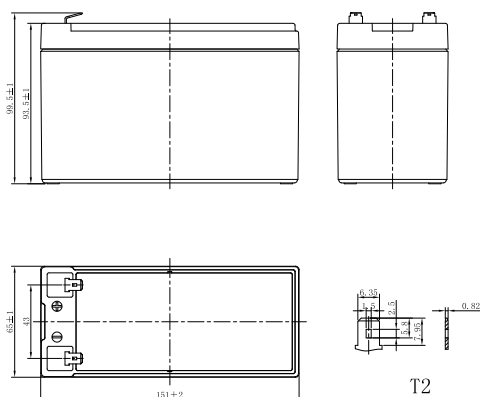


LPX SERIES-GENERAL PURPOSE

LPX12-9.0 (12V8.8Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	8.8Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.66kg (5.86lbs)	
Terminal	T2/T1	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	246.4A	
Internal Resistance (25°C)	Approx 15 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%
Self Discharge	≤3% per month at 25°C (77°F). LPX 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	32.5	20.7	15.7	12.7	9.29	6.68	5.38	3.88	3.01	2.17	1.73	1.47	1.26	0.990	0.813	0.430
1.80V/cell	34.9	21.9	16.5	13.2	9.58	6.86	5.51	3.96	3.07	2.21	1.76	1.50	1.28	1.01	0.824	0.435
1.75V/cell	36.8	22.8	17.0	13.6	9.82	7.01	5.63	4.03	3.12	2.24	1.78	1.51	1.30	1.02	0.832	0.440
1.70V/cell	38.5	23.7	17.6	14.0	10.1	7.17	5.73	4.10	3.17	2.28	1.81	1.54	1.31	1.03	0.841	0.444
1.67V/cell	39.9	24.4	18.0	14.2	10.3	7.28	5.82	4.15	3.20	2.30	1.82	1.55	1.32	1.04	0.847	0.447
1.60V/cell	42.3	25.4	18.6	14.7	10.5	7.46	5.95	4.24	3.27	2.34	1.86	1.57	1.34	1.05	0.858	0.452
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	61.4	39.4	30.0	24.4	18.0	13.0	10.5	7.57	5.90	4.27	3.41	2.91	2.50	1.97	1.62	0.861
1.80V/cell	65.4	41.4	31.3	25.3	18.4	13.3	10.7	7.71	5.99	4.33	3.46	2.95	2.53	2.00	1.64	0.870
1.75V/cell	68.2	42.8	32.2	25.8	18.8	13.5	10.9	7.82	6.08	4.39	3.50	2.98	2.56	2.02	1.65	0.880
1.70V/cell	70.7	44.2	33.0	26.4	19.2	13.7	11.0	7.94	6.16	4.45	3.54	3.02	2.59	2.04	1.67	0.887
1.67V/cell	72.5	45.2	33.7	26.9	19.5	13.9	11.2	8.02	6.22	4.49	3.57	3.04	2.61	2.05	1.68	0.894
1.60V/cell	75.5	46.5	34.7	27.6	19.9	14.2	11.4	8.16	6.32	4.56	3.62	3.08	2.64	2.08	1.70	0.904

LPX SERIES-GENERAL PURPOSE

LPX12-9.0 (12V8.8Ah)



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

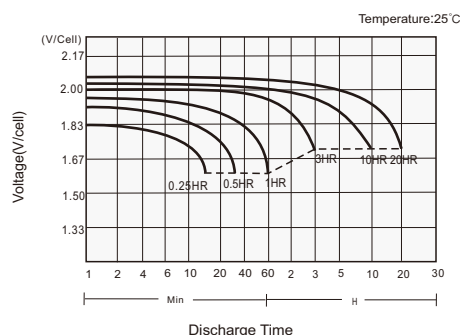
GENERAL FEATURES

- 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

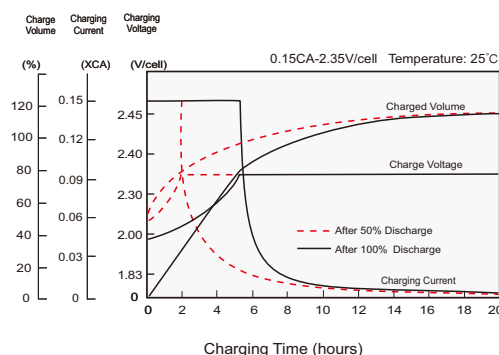
STANDARDS

- 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

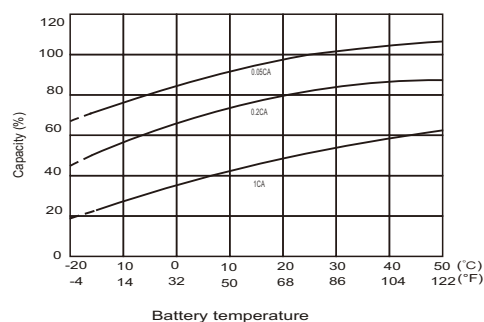
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

