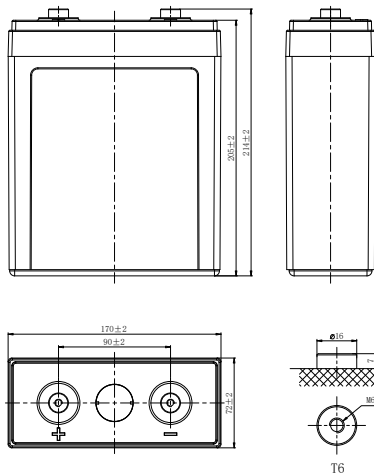


LP SERIES-GENERAL PURPOSE

LP2-100 (2V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ : 1.80V/cell	100Ah
Dimension	Length	170mm (6.69inches)
	Width	72mm (2.83inches)
	Container Height	205mm (8.07inches)
	Total Height	214mm (8.43inches)
Approx Weight	5.70kg (12.6lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1500A	
Internal Resistance (25°C)	Approx 1 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	2.35-2.40V/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	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	115.4	90.8	81.7	65.5	52.0	35.1	29.6	23.6	19.2	16.4	14.8	11.6	9.30	4.88
1.80V/cell	130.8	102.6	91.0	71.6	55.1	37.1	31.2	25.0	20.1	17.0	15.3	11.9	10.0	5.25
1.75V/cell	141.6	110.8	95.0	75.2	58.4	39.3	32.6	25.4	20.9	17.6	15.8	12.1	10.1	5.30
1.70V/cell	150.4	117.5	96.2	77.1	61.1	41.1	33.9	26.2	21.4	17.9	16.0	12.3	10.2	5.35
1.67V/cell	154.8	120.7	97.7	78.9	63.3	42.5	34.9	27.0	21.9	18.2	16.3	12.5	10.3	5.41
1.60V/cell	159.6	123.8	99.2	80.0	64.0	43.6	35.5	27.5	22.2	18.5	16.5	12.6	10.4	5.46
Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	218.6	172.7	149.8	114.3	83.5	63.7	52.4	40.0	32.9	30.1	26.7	19.8	16.6	8.70
1.80V/cell	244.5	193.2	166.9	125.8	89.8	68.6	56.6	42.8	34.8	31.8	28.0	20.5	16.9	8.85
1.75V/cell	261.0	206.2	174.2	131.7	94.5	71.6	58.7	44.2	35.9	32.9	28.8	20.7	17.1	8.95
1.70V/cell	274.3	216.7	176.4	134.8	98.7	74.1	60.3	45.4	36.9	33.5	29.3	20.9	17.2	9.05
1.67V/cell	278.8	220.2	179.1	138.2	103.0	76.7	62.0	46.7	37.8	33.9	29.7	21.1	17.4	9.15
1.60V/cell	282.7	223.3	181.8	141.6	107.2	79.1	63.3	47.7	38.3	34.4	30.1	21.5	17.7	9.30

LP SERIES-GENERAL PURPOSE

LP2-100 (2V100Ah)

APPLICATIONS

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS - for Telecom)

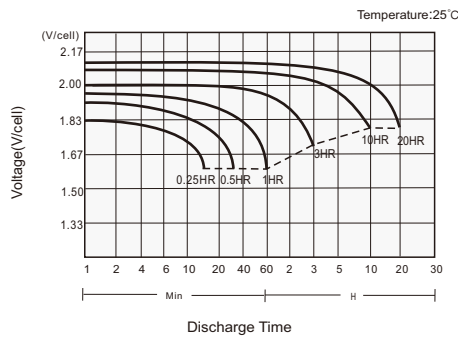
GENERAL FEATURES

- 15 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

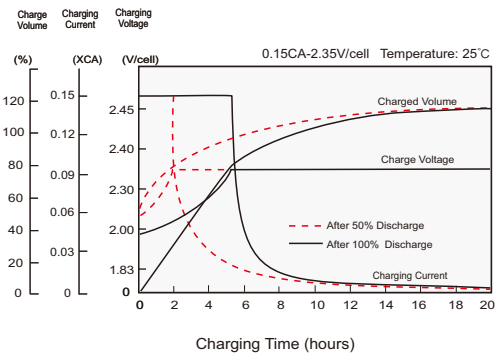
STANDARDS

- 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

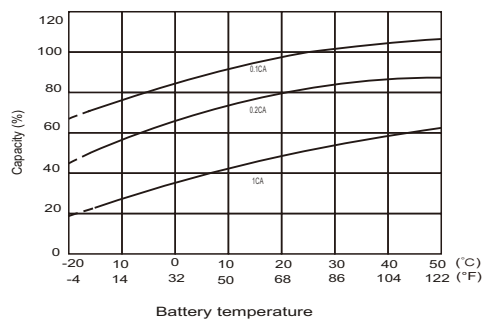
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

