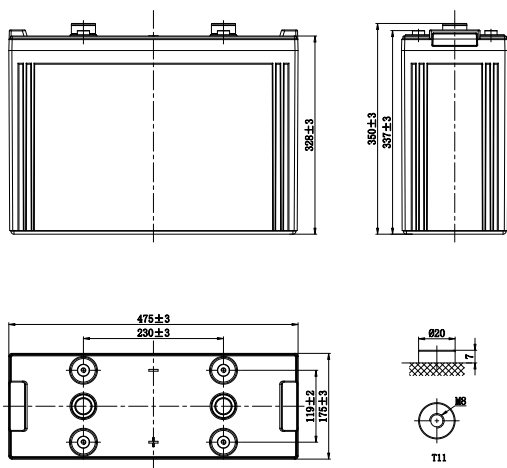


LP SERIES-GENERAL PURPOSE

LP2-1000 (2V1000Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ 1.80V/cell	1000Ah
Dimension	Length	475mm (18.7inches)
	Width	175mm (6.89inches)
	Container Height	328mm (12.9inches)
	Total Height	350mm (13.8inches)
Approx Weight	56.6kg (124.8lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	11000A	
Internal Resistance (25°C)	Approx 0.3 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%
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	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	743.2	666.8	617.4	539.3	472.0	372.2	304.1	234.1	188.3	158.9	137.9	112.1	93.7	50.2
1.80V/cell	890.1	786.4	709.1	603.0	522.3	407.2	321.8	253.2	202.9	171.1	147.9	120.0	100.0	53.0
1.75V/cell	1022.7	858.0	742.0	627.5	550.2	420.9	336.6	260.0	208.0	175.0	151.0	122.2	101.6	53.7
1.70V/cell	1139.8	961.7	802.0	651.3	561.5	435.1	346.2	267.6	213.2	179.0	154.3	124.4	103.1	54.4
1.67V/cell	1180.4	995.4	811.6	666.0	573.3	443.0	347.8	271.6	216.2	181.2	156.1	125.6	104.0	54.8
1.60V/cell	1240.6	1037.7	826.8	700.4	601.2	462.8	365.7	281.6	223.4	186.8	160.5	128.6	106.3	55.7
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	1335.0	1224.6	1133.8	1045.7	917.5	725.7	588.3	458.9	370.0	312.7	271.9	221.5	185.4	99.9
1.80V/cell	1580.9	1429.8	1291.1	1160.7	1008.5	789.5	618.2	494.5	397.4	335.8	290.9	236.6	197.6	105.3
1.75V/cell	1796.3	1544.2	1339.1	1198.6	1038.4	811.0	642.3	505.5	405.8	342.4	296.2	240.5	200.3	106.6
1.70V/cell	1977.8	1712.7	1412.3	1234.3	1069.1	833.4	653.3	517.9	414.6	349.2	301.8	244.2	203.1	107.8
1.67V/cell	2005.3	1751.0	1437.2	1255.8	1086.2	845.3	658.4	524.2	419.3	352.8	304.8	246.4	204.7	108.6
1.60V/cell	2097.0	1805.6	1451.2	1306.6	1128.4	875.7	696.1	540.4	431.1	362.0	312.1	251.5	208.5	110.4

LP SERIES-GENERAL PURPOSE

LP2-1000 (2V1000Ah)



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)

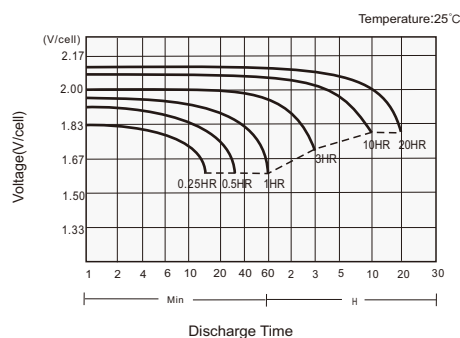
GENERAL FEATURES

- 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

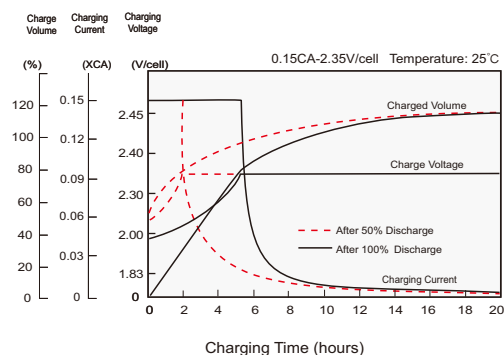
STANDARDS

- 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

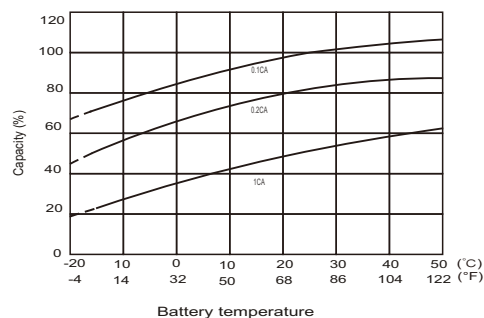
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

