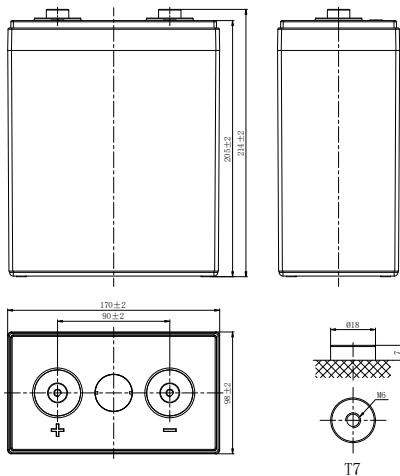


# LP SERIES-GENERAL PURPOSE

## LP2-120 (2V120Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> : 1.80V/cell	120Ah
Dimension	Length	170mm (6.69inches)
	Width	98mm (3.86inches)
	Container Height	205mm (8.07inches)
	Total Height	214mm (8.43inches)
Approx Weight	7.00kg (15.4lbs)	
Terminal	T7(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1800A	
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	
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	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	138.5	108.9	97.5	78.2	62.1	41.9	35.4	28.4	22.9	19.6	17.7	13.8	11.1	5.83
1.80V/cell	157.0	123.2	108.7	85.5	65.8	44.3	37.3	30.0	24.0	20.3	18.3	14.2	12.0	6.24
1.75V/cell	169.9	133.0	113.4	89.8	69.8	46.9	39.0	30.7	24.9	21.0	18.8	14.4	12.1	6.33
1.70V/cell	180.5	141.0	114.9	92.0	72.9	49.0	40.4	31.6	25.5	21.4	19.1	14.7	12.2	6.39
1.67V/cell	185.8	144.8	116.6	94.1	75.5	50.7	41.7	32.6	26.1	21.7	19.5	14.9	12.3	6.45
1.60V/cell	191.5	148.6	118.4	95.5	76.4	52.0	42.3	33.2	26.5	22.1	19.7	15.0	12.4	6.52
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	262.3	207.2	178.8	136.5	99.7	76.0	62.6	47.7	39.3	36.0	31.9	23.6	19.8	10.4
1.80V/cell	293.4	231.8	199.3	150.2	107.2	81.9	67.5	51.1	41.5	38.0	33.5	24.4	20.1	10.6
1.75V/cell	313.1	247.4	208.0	157.2	112.8	85.5	70.1	52.7	42.9	39.3	34.4	24.8	20.4	10.7
1.70V/cell	329.2	260.1	210.6	160.9	117.8	88.5	71.9	54.2	44.0	40.0	35.0	25.0	20.6	10.8
1.67V/cell	334.6	264.3	213.8	165.0	123.0	91.6	74.0	55.8	45.1	40.5	35.4	25.2	20.8	10.9
1.60V/cell	339.2	268.0	217.0	169.0	127.9	94.5	75.6	56.9	45.7	41.1	35.9	25.7	21.2	11.1

# LP SERIES-GENERAL PURPOSE

## LP2-120 (2V120Ah)

### 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)

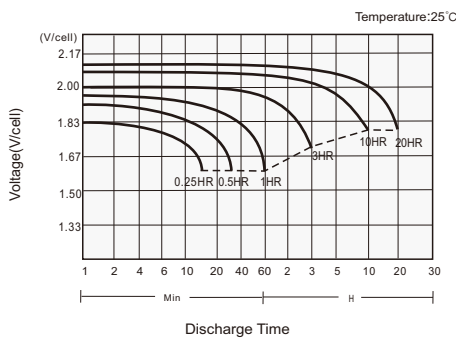
### GENERAL FEATURES

- 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

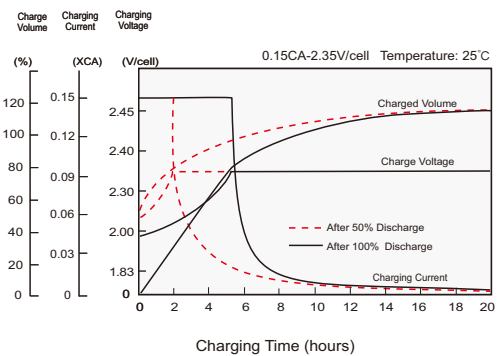
### STANDARDS

- 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

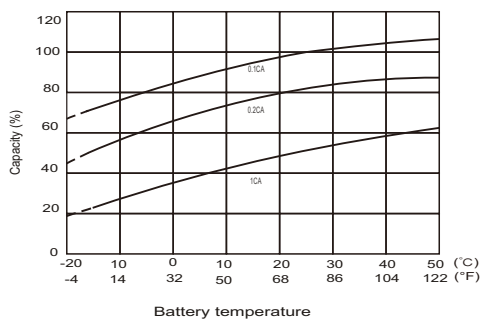
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

