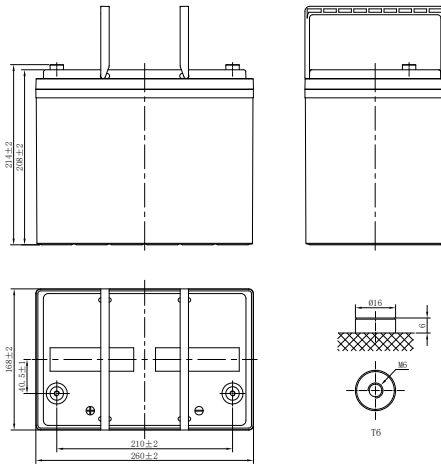


# LP SERIES-GENERAL PURPOSE

## LP12-80 (12V80Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	80Ah
Dimension	Length	260mm(10.2inches)
	Width	168mm(6.61inches)
	Container Height	208mm(8.19inches)
	Total Height	214mm(8.43inches)
Approx Weight	23.8kg(52.5lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1840A	
Internal Resistance (25°C)	Approx 6.2 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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	162.8	115.7	104.7	82.3	73.6	53.8	45.6	33.0	27.8	20.4	16.0	13.9	12.2	9.40	7.79	4.13
1.80V/cell	185.1	131.4	118.6	93.1	80.1	57.0	47.2	34.2	28.7	22.1	17.1	14.6	13.1	9.89	8.00	4.28
1.75V/cell	201.1	142.5	128.4	100.5	81.8	59.0	49.5	35.9	30.2	22.5	17.4	14.9	13.2	9.95	8.24	4.33
1.70V/cell	215.0	151.9	136.4	106.5	83.4	60.2	50.5	36.6	30.8	23.0	17.7	15.1	13.3	10.1	8.32	4.37
1.67V/cell	222.5	156.7	140.4	109.4	84.6	61.1	51.3	37.2	31.2	23.2	18.0	15.4	13.4	10.2	8.43	4.43
1.60V/cell	230.4	162.1	144.7	112.2	85.9	62.0	52.0	37.7	31.7	23.4	18.2	15.6	13.5	10.4	8.53	4.48
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	304.0	217.8	198.2	156.6	140.6	101.3	88.2	64.1	54.0	39.8	31.4	27.3	24.1	18.7	15.5	8.23
1.80V/cell	340.1	243.6	221.7	175.1	151.9	106.6	90.8	65.9	55.5	43.0	33.4	28.6	25.8	19.5	16.2	8.52
1.75V/cell	363.0	260.0	236.6	186.9	153.8	109.8	94.9	69.0	58.2	43.7	33.9	29.0	25.9	19.6	16.3	8.59
1.70V/cell	381.6	273.3	248.7	196.5	155.6	111.2	96.3	70.1	59.1	44.4	34.3	29.4	26.0	19.9	16.5	8.67
1.67V/cell	387.8	277.8	252.8	199.7	156.7	112.2	97.1	70.7	59.7	44.6	34.7	29.9	26.1	20.1	16.7	8.77
1.60V/cell	393.2	281.6	256.3	202.5	157.4	112.8	97.9	71.3	60.2	44.8	35.0	30.2	26.2	20.4	16.8	8.86

# LP SERIES-GENERAL PURPOSE

## LP12-80 (12V80Ah)



### 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

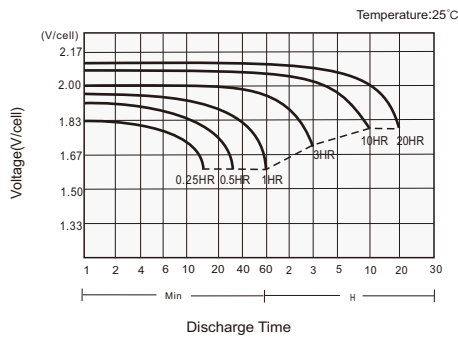
### GENERAL FEATURES

- 10 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

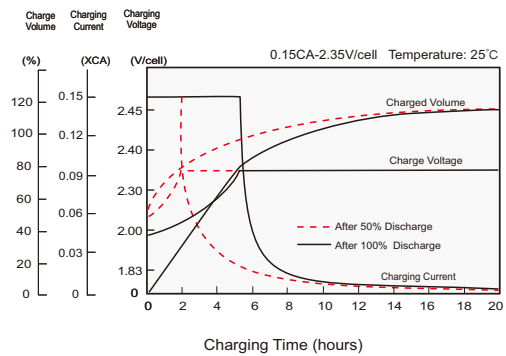
### STANDARDS

- 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

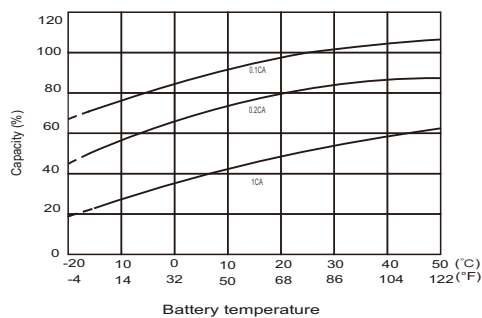
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

