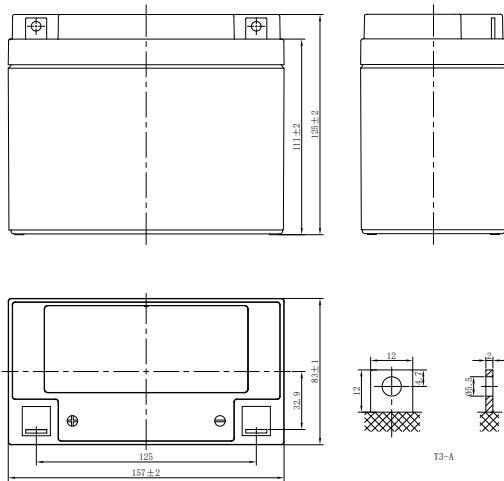


# LP SERIES-GENERAL PURPOSE

## LP6-20 (6V20Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	6V	
Nominal Capacity (25°C)	C <sub>20</sub> : 1.75V/cell	20Ah
Dimension	Length	157mm (6.18inches)
	Width	83mm (3.27inches)
	Container Height	125mm (4.92inches)
	Total Height	125mm (4.92inches)
Approx Weight	3.30kg (7.28lbs)	
Terminal	T3-A	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	560A	
Internal Resistance (25°C)	Approx 9 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	
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	58.8	40.9	32.7	25.9	18.8	13.8	11.4	8.61	6.86	5.02	4.06	3.45	2.96	2.33	1.85	0.980
1.80V/cell	63.2	43.4	34.3	26.9	19.3	14.1	11.7	8.78	6.98	5.10	4.11	3.50	3.00	2.36	1.87	0.990
1.75V/cell	66.6	45.1	35.4	27.6	19.8	14.4	11.9	8.95	7.11	5.18	4.17	3.55	3.04	2.39	1.89	1.00
1.70V/cell	69.7	46.9	36.6	28.4	20.3	14.8	12.1	9.10	7.22	5.26	4.23	3.59	3.07	2.41	1.91	1.01
1.67V/cell	72.1	48.2	37.5	29.0	20.7	15.0	12.3	9.22	7.29	5.31	4.27	3.63	3.10	2.43	1.92	1.02
1.60V/cell	76.5	50.3	38.8	29.9	21.3	15.4	12.6	9.41	7.44	5.41	4.34	3.68	3.14	2.47	1.95	1.03

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	111.1	77.8	62.6	49.8	36.3	26.7	22.2	16.8	13.4	9.86	7.99	6.82	5.85	4.62	3.67	1.96
1.80V/cell	118.4	81.9	65.3	51.5	37.2	27.3	22.6	17.1	13.6	10.0	8.09	6.90	5.93	4.68	3.72	1.98
1.75V/cell	123.4	84.6	67.0	52.7	38.0	27.8	23.0	17.4	13.8	10.1	8.19	6.98	5.99	4.73	3.75	2.00
1.70V/cell	127.9	87.4	68.8	53.9	38.8	28.3	23.4	17.6	14.0	10.3	8.29	7.07	6.05	4.77	3.79	2.02
1.67V/cell	131.3	89.4	70.3	54.9	39.4	28.7	23.7	17.8	14.1	10.4	8.35	7.12	6.10	4.81	3.81	2.03
1.60V/cell	136.6	92.0	72.2	56.2	40.3	29.2	24.1	18.1	14.4	10.5	8.48	7.21	6.18	4.87	3.86	2.05

# LP SERIES-GENERAL PURPOSE

## LP6-20 (6V20Ah)



### APPLICATIONS

- 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

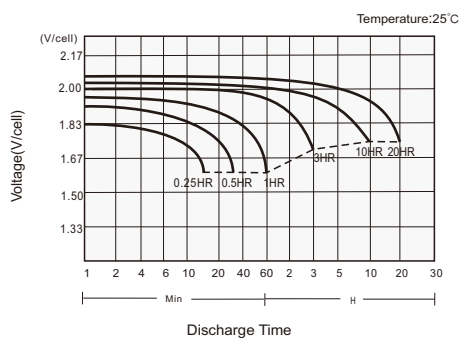
### GENERAL FEATURES

- 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

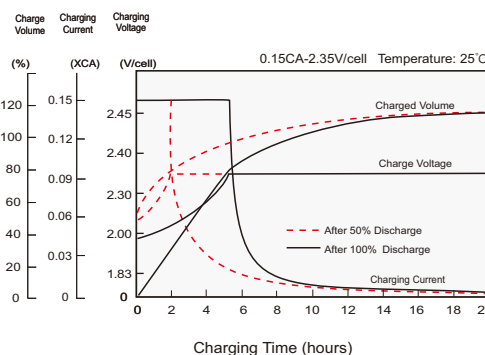
### STANDARDS

- 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

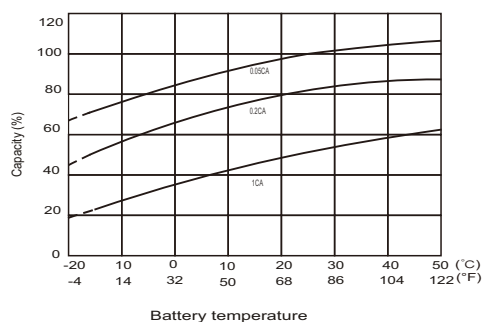
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

