



LP Series-General Purpose LP6-20(6V20Ah)

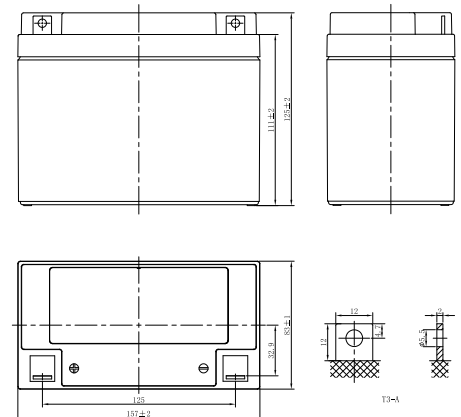


Specifications

Rated Voltage	6V	
Nominal Capacity	20.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	157±2mm (6.18 inches)
	Width	83±1mm (3.27 inches)
	Container Height	125±2mm (4.92 inches)
	Total Height	125±2mm (4.92 inches)
Approx Weight	3.21 Kg (7.08 lbs)	
Terminal	T3-A	
Container Material	ABS	
Rated Capacity (25°C)	20.0 Ah	(20hr, 1.00A, 1.75V/cell)
	18.9 Ah	(10hr, 1.89A, 1.75V/cell)
	17.8 Ah	(5hr, 3.55A, 1.75V/cell)
	15.5 Ah	(3hr, 5.18A, 1.75V/cell)
	12.6 Ah	(1hr, 12.6A, 1.60V/cell)
Max. Discharge Current	300A (5s)	
Internal Resistance (25°C)	Approx 9mΩ	
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)	
Cycle Use	Initial Charging Current less than 6.0A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
Standby Use	Initial Charging Current less than 6.0A. Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LP series batteries may be stored for 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.	



Layout



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	0.98
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	0.99
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

- 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

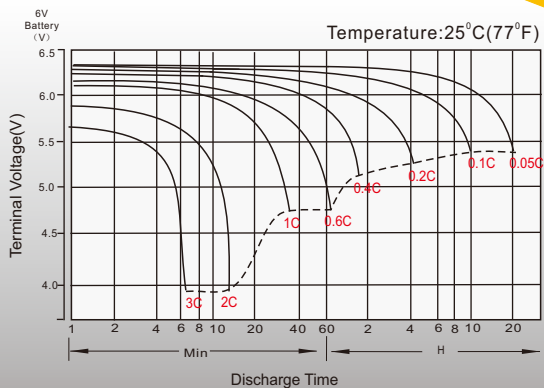
General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

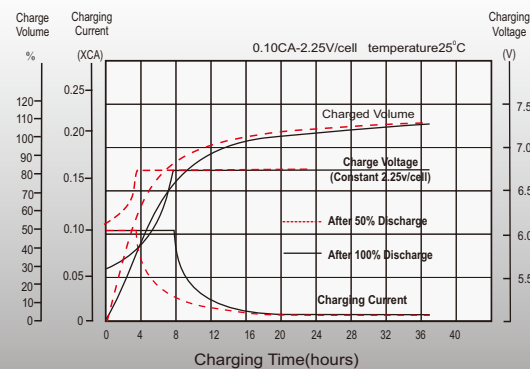
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

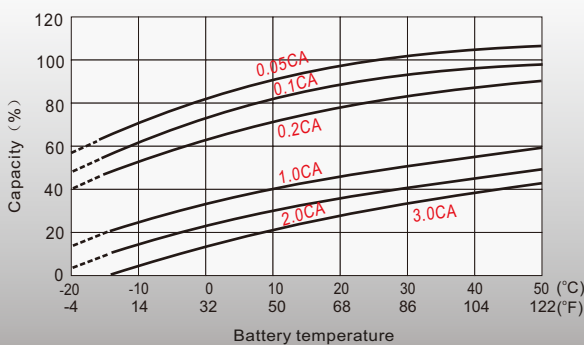
Discharge Characteristics



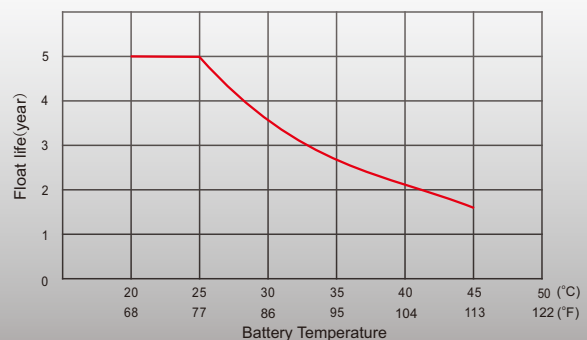
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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