



LP Series-General Purpose

LP12-20(12V20Ah)

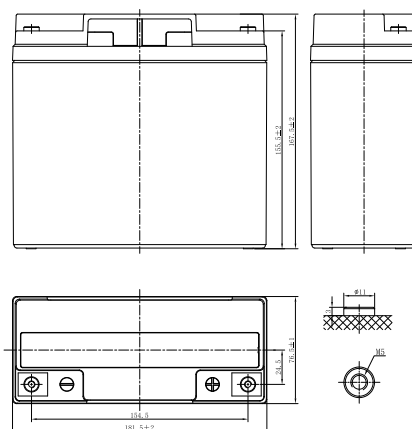


Specifications

Rated Voltage	12V	
Nominal Capacity	20.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	181.5±2mm (7.14 inches)
	Width	76.5±1mm (3.01 inches)
	Container Height	167.5±2mm (6.59 inches)
	Total Height	167.5±2mm (6.59 inches)
Approx Weight	5.65 Kg (12.46 lbs)	
Terminal	M5	
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)
	17.2 Ah	(5hr, 3.44A, 1.75V/cell)
	15.3 Ah	(3hr, 5.10A, 1.75V/cell)
	13.1 Ah	(1hr, 13.1A, 1.60V/cell)
Max. Discharge Current	300A (5s)	
Internal Resistance (25°C)	Approx 16mΩ	
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	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 6.0A. Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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	62.2	42.6	33.2	27.0	19.9	14.5	11.9	8.71	6.85	4.94	3.94	3.35	2.87	2.26	1.85	0.978
1.80V/cell	66.9	45.2	34.8	28.1	20.5	14.9	12.2	8.89	6.97	5.02	3.99	3.40	2.91	2.29	1.87	0.989
1.75V/cell	70.5	47.0	36.0	28.8	21.0	15.2	12.4	9.06	7.10	5.10	4.05	3.44	2.95	2.32	1.89	1.00
1.70V/cell	73.8	48.9	37.2	29.7	21.6	15.6	12.7	9.21	7.20	5.18	4.10	3.49	2.98	2.34	1.91	1.01
1.67V/cell	76.4	50.3	38.1	30.3	21.9	15.8	12.9	9.33	7.28	5.23	4.14	3.52	3.01	2.36	1.92	1.02
1.60V/cell	81.0	52.4	39.4	31.2	22.5	16.2	13.1	9.53	7.43	5.32	4.22	3.58	3.05	2.39	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	117.7	81.2	63.5	52.0	38.4	28.2	23.1	17.0	13.4	9.71	7.76	6.62	5.68	4.48	3.67	1.96
1.80V/cell	125.3	85.4	66.3	53.8	39.4	28.8	23.6	17.3	13.6	9.85	7.85	6.70	5.76	4.54	3.72	1.98
1.75V/cell	130.6	88.2	68.0	55.0	40.3	29.3	24.0	17.6	13.8	10.0	7.95	6.78	5.82	4.59	3.75	2.00
1.70V/cell	135.4	91.1	69.9	56.3	41.1	29.9	24.4	17.8	14.0	10.1	8.05	6.86	5.88	4.63	3.79	2.02
1.67V/cell	139.0	93.2	71.4	57.3	41.7	30.3	24.7	18.0	14.1	10.2	8.11	6.91	5.93	4.66	3.81	2.03
1.60V/cell	144.6	95.9	73.3	58.7	42.6	30.8	25.1	18.3	14.4	10.4	8.23	7.00	6.00	4.73	3.86	2.05



LP Series-General Purpose

LP12-20(12V20Ah)



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

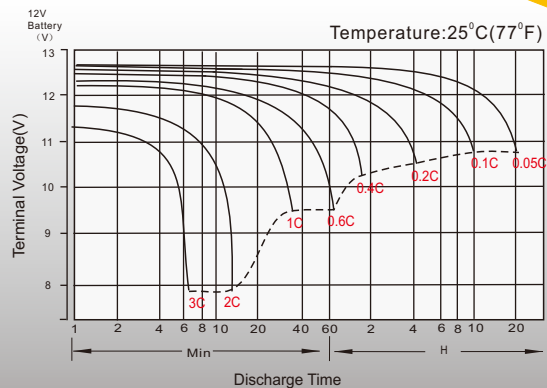
General Features

- 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

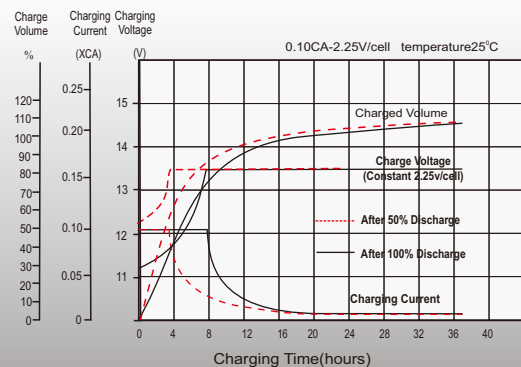
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

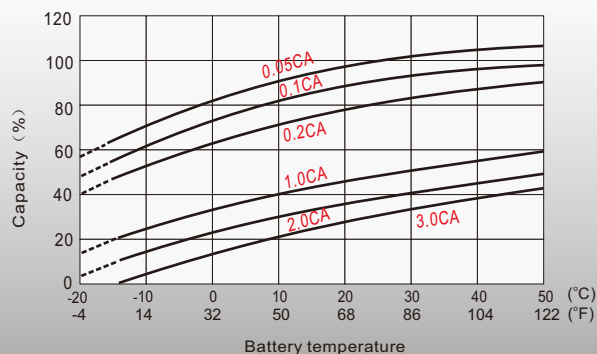
Discharge Characteristics



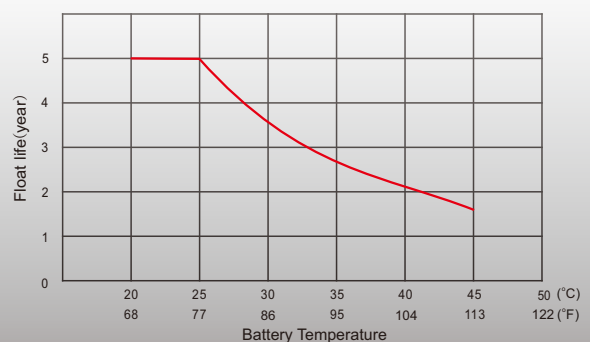
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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