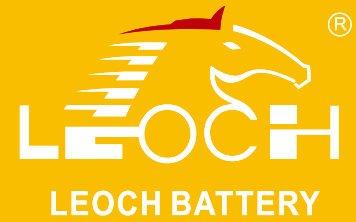


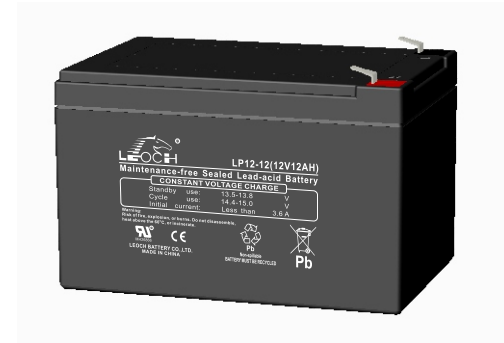


LP Series-General Purpose LP12-12(12V12Ah)

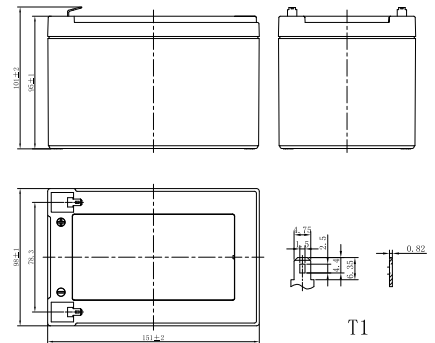


Specifications

Rated Voltage	12V	
Nominal Capacity	12.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	151±2mm (5.95 inches)
	Width	98±1mm (3.86 inches)
	Container Height	95±1mm (3.74 inches)
	Total Height	101±2mm (3.98 inches)
Approx Weight	3.43 Kg (7.56 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	12.0 Ah	(20hr, 0.600A, 1.75V/cell)
	11.3 Ah	(10hr, 1.13A, 1.75V/cell)
	10.2 Ah	(5hr, 2.04A, 1.75V/cell)
	9.18 Ah	(3hr, 3.06A, 1.75V/cell)
	7.89 Ah	(1hr, 7.89A, 1.60V/cell)
Max. Discharge Current	180A (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 3.6A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 3.6A. 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)

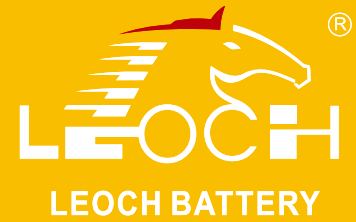
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	35.8	24.7	19.4	15.8	11.6	8.50	7.14	5.23	4.11	2.96	2.36	2.01	1.72	1.36	1.11	0.587
1.80V/cell	38.5	26.2	20.4	16.4	12.0	8.72	7.31	5.34	4.18	3.01	2.40	2.04	1.75	1.38	1.12	0.593
1.75V/cell	40.5	27.3	21.0	16.9	12.3	8.91	7.46	5.43	4.26	3.06	2.43	2.07	1.77	1.39	1.13	0.600
1.70V/cell	42.4	28.4	21.7	17.4	12.6	9.11	7.60	5.53	4.32	3.11	2.46	2.09	1.79	1.41	1.15	0.605
1.67V/cell	43.9	29.2	22.3	17.7	12.8	9.26	7.71	5.60	4.37	3.14	2.49	2.11	1.81	1.42	1.15	0.610
1.60V/cell	46.6	30.4	23.0	18.3	13.2	9.49	7.89	5.72	4.46	3.19	2.53	2.15	1.83	1.44	1.17	0.616

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	67.7	47.1	37.2	30.4	22.5	16.5	13.9	10.2	8.04	5.83	4.65	3.97	3.41	2.69	2.20	1.17
1.80V/cell	72.1	49.5	38.8	31.5	23.1	16.9	14.2	10.4	8.17	5.91	4.71	4.02	3.45	2.73	2.23	1.19
1.75V/cell	75.1	51.2	39.8	32.2	23.5	17.2	14.4	10.5	8.30	5.99	4.77	4.07	3.49	2.75	2.25	1.20
1.70V/cell	77.9	52.8	40.9	32.9	24.0	17.5	14.6	10.7	8.40	6.07	4.83	4.12	3.53	2.78	2.27	1.21
1.67V/cell	79.9	54.0	41.8	33.5	24.4	17.7	14.8	10.8	8.48	6.12	4.87	4.15	3.56	2.80	2.29	1.22
1.60V/cell	83.1	55.6	42.9	34.3	24.9	18.0	15.1	11.0	8.62	6.21	4.94	4.20	3.60	2.84	2.32	1.23



LP Series-General Purpose LP12-12(12V12Ah)



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

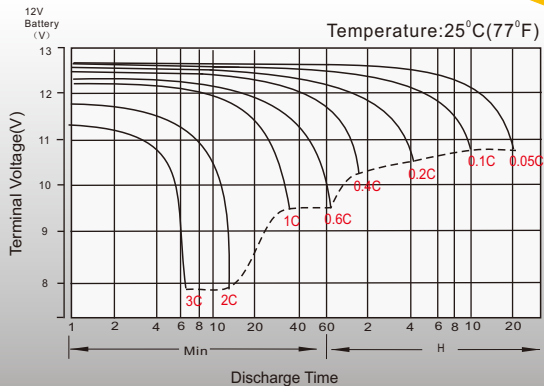
General Features

- 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

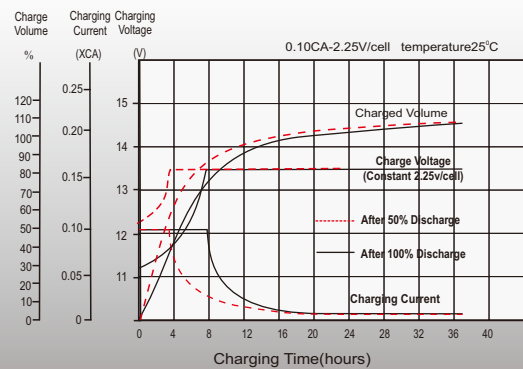
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

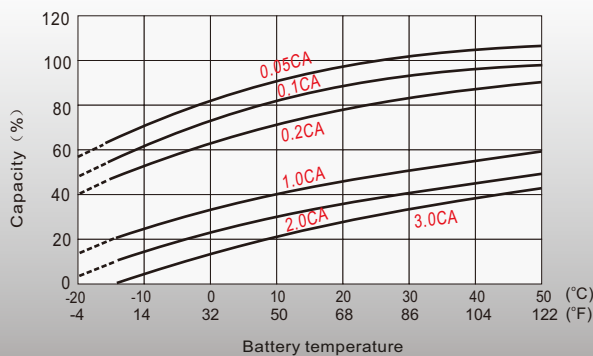
Discharge Characteristics



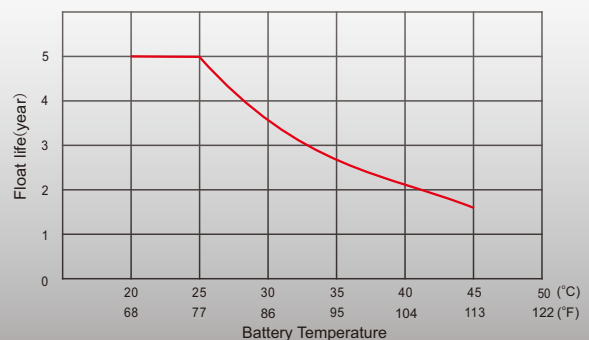
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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Publication No.: LB-LP12-12-PD-CED-V2.0-202004