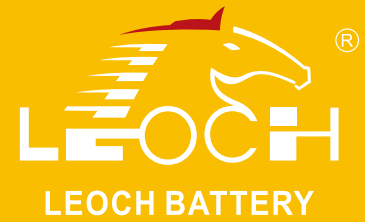




LPL Series-Long Standby Life LPL12-28(12V28Ah)

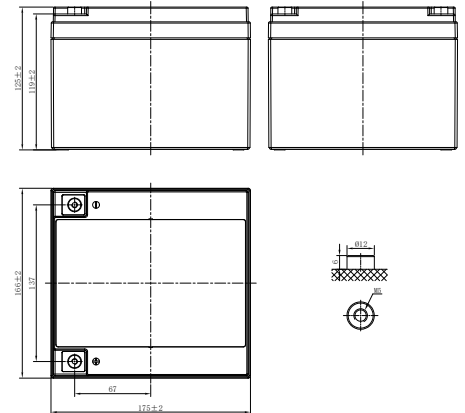


Specifications

Rated Voltage	12V	
Nominal Capacity	28.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	166±2mm (6.54 inches)
	Width	175±2mm (6.89 inches)
	Container Height	125±2mm (4.92 inches)
	Total Height	125±2mm (4.92 inches)
Approx Weight	8.20 Kg (18.1 lbs)	
Terminal	M5	
Container Material	ABS	
Rated Capacity (25°C)	28.00 Ah	(20hr, 1.40A, 1.75V/cell)
	26.30 Ah	(10hr, 2.63A, 1.75V/cell)
	23.85 Ah	(5hr, 4.77A, 1.75V/cell)
	21.87 Ah	(3hr, 7.29A, 1.75V/cell)
	18.40 Ah	(1hr, 18.4A, 1.60V/cell)
Max. Discharge Current	420A (5s)	
Internal Resistance (25°C)	Approx 11.0mΩ	
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 8.4A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 8.4A. 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	LPL 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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	53.2	42.7	36.2	26.9	20.6	16.9	9.68	7.07	5.58	4.64	3.97	3.12	2.57	1.37
1.80V/cell	55.9	44.4	37.3	27.6	21.0	17.2	9.83	7.18	5.66	4.71	4.02	3.16	2.60	1.39
1.75V/cell	58.6	46.0	38.4	28.2	21.5	17.5	9.98	7.29	5.74	4.77	4.07	3.20	2.63	1.40
1.70V/cell	61.4	47.6	39.6	28.9	21.9	17.8	10.1	7.39	5.81	4.83	4.13	3.24	2.66	1.41
1.65V/cell	63.0	48.6	40.2	29.3	22.1	18.0	10.2	7.46	5.86	4.87	4.16	3.26	2.68	1.42
1.60V/cell	66.8	50.8	41.8	30.2	22.7	18.4	10.4	7.60	5.97	4.95	4.23	3.31	2.72	1.44

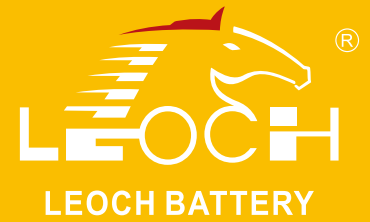
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	101.8	82.0	69.6	52.0	40.0	32.8	19.0	13.9	11.0	9.17	7.86	6.19	5.11	2.74
1.80V/cell	106.3	84.8	71.5	53.1	40.7	33.3	19.2	14.1	11.1	9.28	7.95	6.26	5.16	2.77
1.75V/cell	110.9	87.4	73.2	54.1	41.3	33.8	19.4	14.3	11.3	9.39	8.04	6.33	5.22	2.80
1.70V/cell	115.4	90.0	75.1	55.1	42.0	34.3	19.7	14.4	11.4	9.49	8.13	6.40	5.28	2.83
1.65V/cell	118.1	91.7	76.2	55.7	42.3	34.5	19.9	14.5	11.5	9.55	8.19	6.44	5.32	2.85
1.60V/cell	124.3	95.1	78.6	57.1	43.2	35.2	20.2	14.8	11.7	9.70	8.31	6.54	5.40	2.89



LPL Series-Long Standby Life

LPL12-28(12V28Ah)



Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

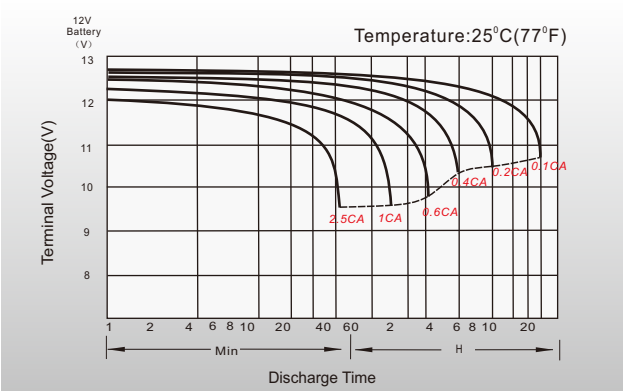
General Features

- 10 ~ 12 years design life(20°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

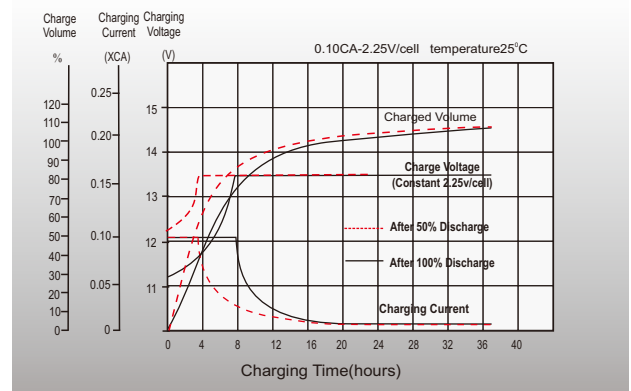
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

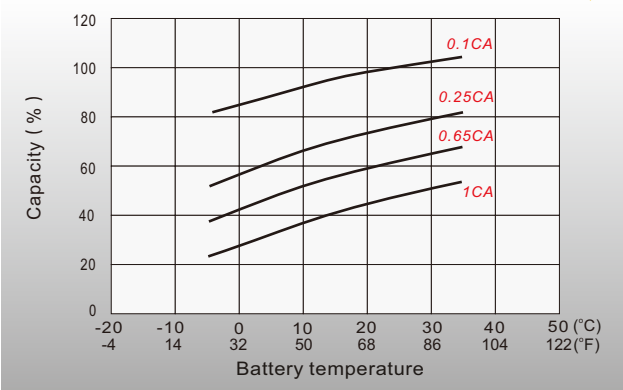
Discharge Characteristics



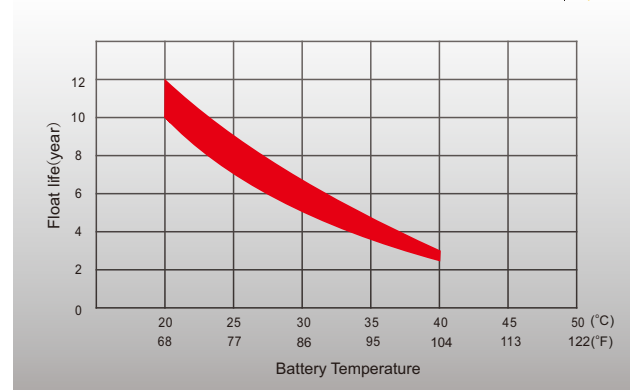
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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