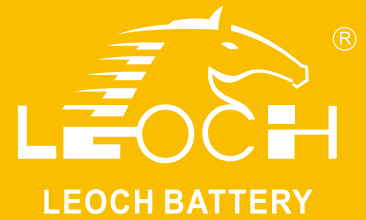




LPL Series-Long Standby Life LPL12-18(12V18Ah)

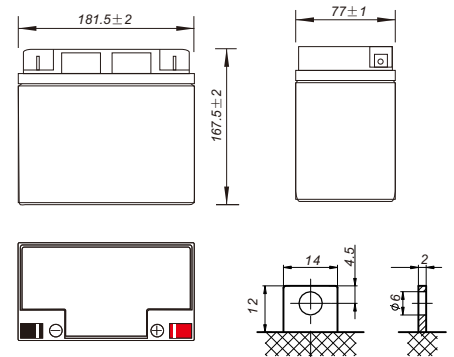


Specifications

Rated Voltage	12V	
Nominal Capacity	18.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	181.5±2mm (7.14 inches)
	Width	77±1mm (3.03 inches)
	Container Height	167.5±2mm (6.59 inches)
	Total Height	167.5±2mm (6.59 inches)
Approx Weight	5.7 Kg (12.57 lbs)	
Terminal	T3	
Container Material	ABS	
Rated Capacity (25°C)	18.00 Ah	(20hr, 0.900A, 1.75V/cell)
	17.10 Ah	(10hr, 1.71A, 1.75V/cell)
	15.80 Ah	(5hr, 3.16A, 1.75V/cell)
	14.52 Ah	(3hr, 4.84A, 1.75V/cell)
	12.10 Ah	(1hr, 12.1A, 1.60V/cell)
Max. Discharge Current	270A (5s)	
Internal Resistance (25°C)	Approx 16.0mΩ	
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 5.4A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 5.4A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 5.4A. 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)

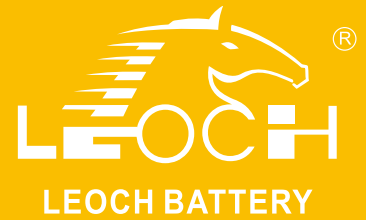
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.0	29.0	24.3	18.3	13.6	11.1	6.43	4.70	3.70	3.08	2.64	2.07	1.67	0.882
1.80V/cell	37.8	30.1	25.1	18.7	13.8	11.3	6.53	4.77	3.76	3.12	2.67	2.10	1.69	0.891
1.75V/cell	39.6	31.2	25.8	19.2	14.1	11.5	6.63	4.84	3.81	3.16	2.70	2.12	1.71	0.900
1.70V/cell	41.5	32.3	26.6	19.6	14.4	11.7	6.73	4.91	3.86	3.21	2.74	2.15	1.73	0.910
1.65V/cell	42.6	33.0	27.0	19.9	14.5	11.8	6.80	4.95	3.89	3.23	2.76	2.17	1.74	0.915
1.60V/cell	45.2	34.5	28.1	20.5	14.9	12.1	6.93	5.05	3.97	3.29	2.81	2.20	1.77	0.928

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	68.8	55.6	46.8	35.3	26.3	21.6	12.6	9.23	7.30	6.09	5.22	4.11	3.31	1.76
1.80V/cell	71.9	57.5	48.0	36.0	26.7	21.9	12.7	9.35	7.39	6.16	5.28	4.16	3.35	1.78
1.75V/cell	75.0	59.3	49.2	36.7	27.2	22.2	12.9	9.47	7.48	6.23	5.34	4.20	3.39	1.80
1.70V/cell	78.1	61.1	50.4	37.4	27.6	22.5	13.1	9.59	7.57	6.30	5.40	4.25	3.43	1.82
1.65V/cell	79.9	62.2	51.2	37.8	27.8	22.7	13.2	9.66	7.62	6.34	5.44	4.28	3.45	1.83
1.60V/cell	84.1	64.5	52.8	38.8	28.4	23.1	13.4	9.82	7.74	6.44	5.52	4.34	3.50	1.86



LPL Series-Long Standby Life LPL12-18(12V18Ah)



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

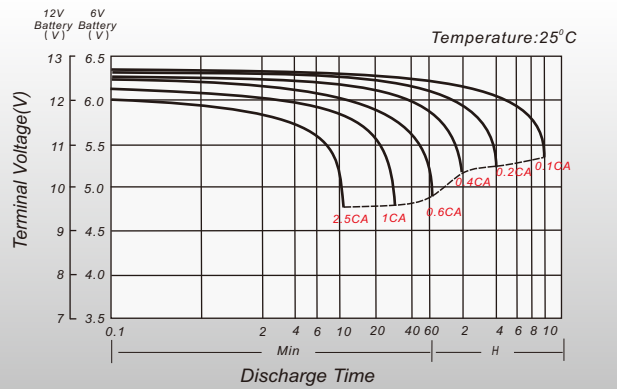
General Features

- 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

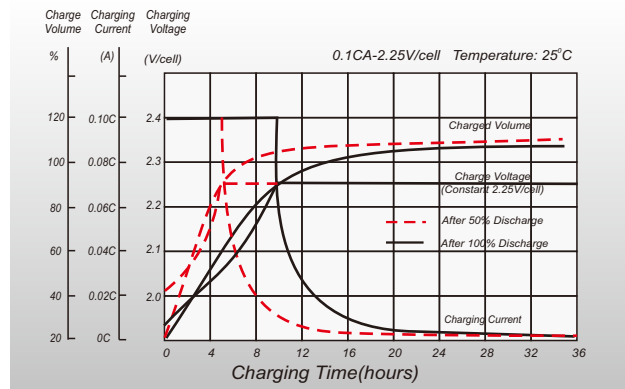
Standards

- 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

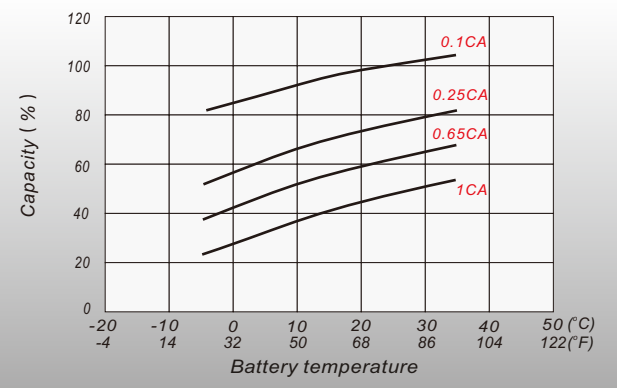
Discharge Characteristics



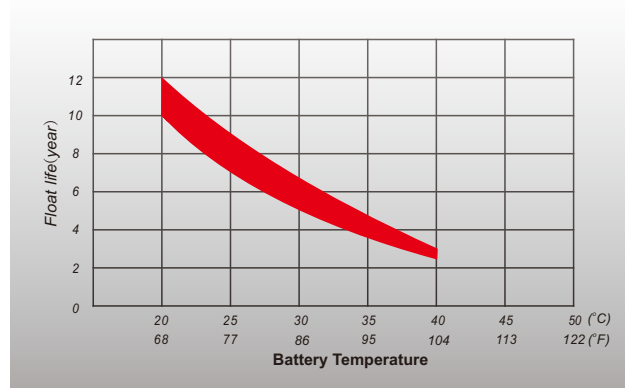
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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