



LPL Series-Long Standby Life LPL6-18(6V18Ah)

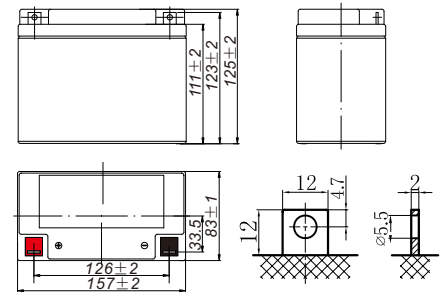


Specifications

Rated Voltage	6V	
Nominal Capacity	18.0Ah	(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)	18.00 Ah	(20hr, 0.900A, 1.75V/cell)
	17.90 Ah	(10hr, 1.79A, 1.75V/cell)
	17.20 Ah	(5hr, 3.44A, 1.75V/cell)
	15.30 Ah	(3hr, 5.10A, 1.75V/cell)
	13.00 Ah	(1hr, 13.0A, 1.60V/cell)
Max. Discharge Current	270A (5s)	
Internal Resistance (25°C)	Approx 9.0mΩ	
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)	
<u>Cycle Use</u>	Initial Charging Current less than 5.4A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
<u>Standby Use</u>	Initial Charging Current less than 5.4A. Voltage 6.75V~6.90V at 25°C(77°F)Temp. Coefficient -10mV/°C	
<u>Effect of temp. to Capacity</u>	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	40.5	32.1	26.4	19.7	14.6	11.9	6.85	4.95	3.95	3.35	2.82	2.14	1.75	0.882
1.80V/cell	42.5	33.4	27.3	20.2	14.9	12.1	6.95	5.03	4.00	3.40	2.86	2.17	1.77	0.891
1.75V/cell	44.6	34.6	28.1	20.7	15.2	12.4	7.06	5.10	4.06	3.44	2.90	2.19	1.79	0.900
1.70V/cell	46.7	35.8	28.9	21.1	15.5	12.6	7.17	5.18	4.11	3.48	2.94	2.22	1.81	0.910
1.65V/cell	47.9	36.6	29.4	21.4	15.6	12.7	7.24	5.22	4.15	3.51	2.96	2.24	1.82	0.915
1.60V/cell	50.8	38.2	30.6	22.1	16.1	13.0	7.39	5.32	4.22	3.58	3.01	2.27	1.85	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	77.4	61.7	50.9	38.0	28.3	23.2	13.4	9.73	7.78	6.62	5.58	4.24	3.47	1.76
1.80V/cell	80.9	63.8	52.3	38.8	28.8	23.5	13.6	9.86	7.87	6.70	5.65	4.29	3.51	1.78
1.75V/cell	84.4	65.7	53.6	39.6	29.2	23.9	13.8	9.99	7.97	6.77	5.71	4.34	3.55	1.80
1.70V/cell	87.8	67.7	54.9	40.3	29.7	24.2	13.9	10.1	8.06	6.85	5.78	4.39	3.59	1.82
1.65V/cell	89.9	68.9	55.7	40.8	29.9	24.4	14.0	10.2	8.12	6.90	5.82	4.42	3.61	1.83
1.60V/cell	94.5	71.5	57.5	41.8	30.6	24.9	14.3	10.4	8.25	7.00	5.91	4.49	3.67	1.86



LPL Series-Long Standby Life

LPL6-18(6V18Ah)



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

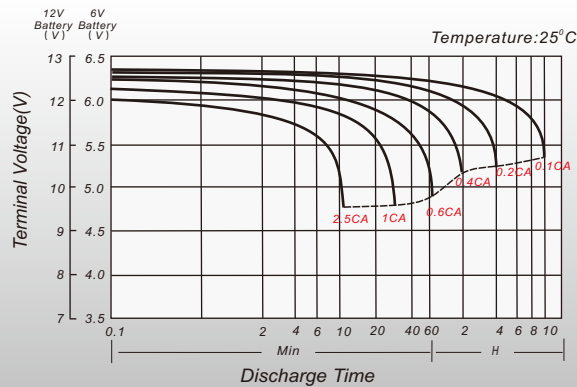
General Features

- 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

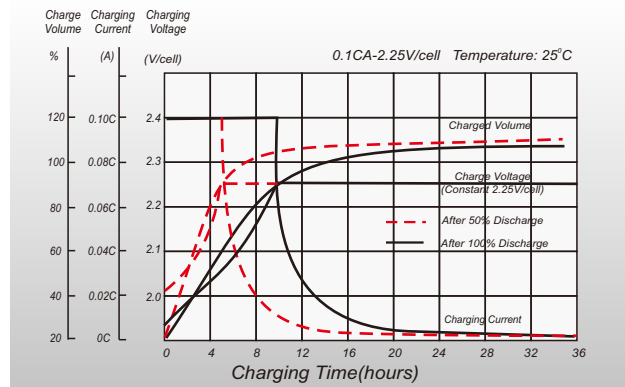
Standards

- 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

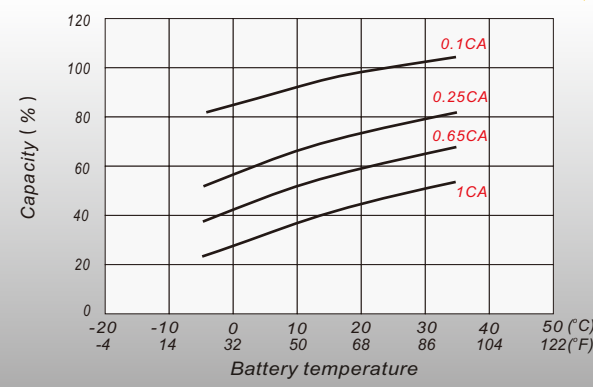
Discharge Characteristics



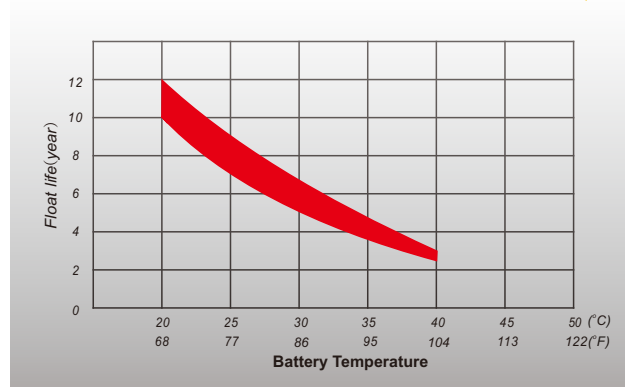
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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