

LPL Series-Long Standby Life LPL6-11(6V11Ah)

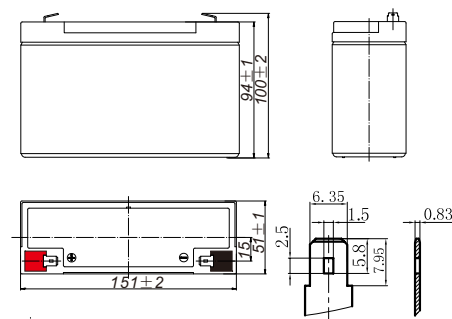


Specifications

Rated Voltage	6V	
Nominal Capacity	(C ₂₀ , 1.75V/cell)	11.0Ah
Dimension	Length	151±2mm (5.95 inches)
	Width	51±1mm (2.01 inches)
	Container Height	94±1mm (3.70 inches)
	Total Height	100±2mm (3.94 inches)
Approx Weight	1.95 Kg (4.30 lbs)	
Terminal	T2	
Container Material	ABS	
Rated Capacity (25°C)	11.00 Ah	(20hr, 0.550A, 1.75V/cell)
	10.90 Ah	(10hr, 1.09A, 1.75V/cell)
	10.65Ah	(5hr, 2.13A, 1.75V/cell)
	9.39 Ah	(3hr, 3.13A, 1.75V/cell)
	7.89 Ah	(1hr, 7.89A, 1.60V/cell)
Max. Discharge Current	165A (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 3.3A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
	Initial Charging Current less than 3.3A. Voltage 6.75V~6.90V at 25°C(77°F)Temp. Coefficient -10mV/°C	
Standby Use	Initial Charging Current less than 3.3A. Voltage 6.75V~6.90V at 25°C(77°F)Temp. Coefficient -10mV/°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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.1	25.2	19.7	16.1	11.8	8.64	7.31	5.36	4.21	3.04	2.42	2.06	1.76	1.36	1.11	0.587
1.80V/cell	38.8	26.7	20.7	16.7	12.2	8.87	7.49	5.47	4.29	3.09	2.46	2.09	1.79	1.38	1.12	0.593
1.75V/cell	40.9	27.7	21.4	17.2	12.5	9.07	7.65	5.57	4.37	3.14	2.49	2.12	1.81	1.40	1.13	0.600
1.70V/cell	42.8	28.9	22.1	17.7	12.8	9.27	7.79	5.67	4.43	3.18	2.52	2.15	1.83	1.41	1.15	0.605
1.67V/cell	44.3	29.7	22.7	18.0	13.0	9.42	7.91	5.74	4.48	3.21	2.55	2.16	1.85	1.42	1.15	0.610
1.60V/cell	47.0	30.9	23.4	18.6	13.4	9.65	8.08	5.86	4.57	3.27	2.59	2.20	1.88	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	68.2	47.9	37.8	30.9	22.9	16.8	14.2	10.5	8.24	5.97	4.77	4.07	3.49	2.70	2.20	1.17
1.80V/cell	72.7	50.4	39.4	32.0	23.5	17.2	14.5	10.6	8.38	6.06	4.83	4.12	3.54	2.73	2.23	1.19
1.75V/cell	75.8	52.1	40.5	32.7	24.0	17.5	14.8	10.8	8.50	6.14	4.89	4.17	3.58	2.76	2.25	1.20
1.70V/cell	78.5	53.8	41.6	33.5	24.4	17.8	15.0	11.0	8.61	6.22	4.95	4.22	3.61	2.79	2.27	1.21
1.67V/cell	80.6	55.0	42.5	34.1	24.8	18.0	15.2	11.1	8.69	6.27	4.99	4.25	3.64	2.81	2.29	1.22
1.60V/cell	83.9	56.6	43.6	34.9	25.4	18.4	15.5	11.3	8.83	6.37	5.06	4.31	3.69	2.85	2.32	1.23

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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

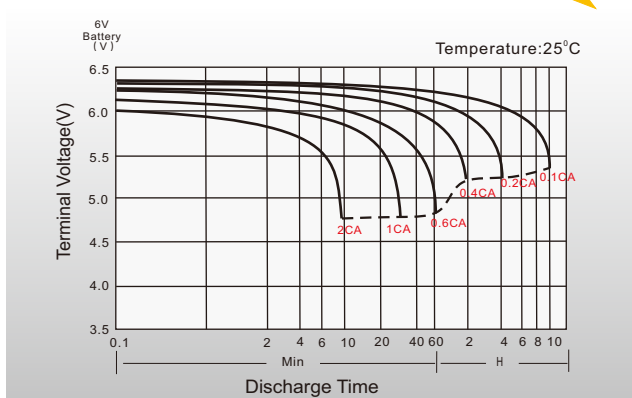
General Features

- 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

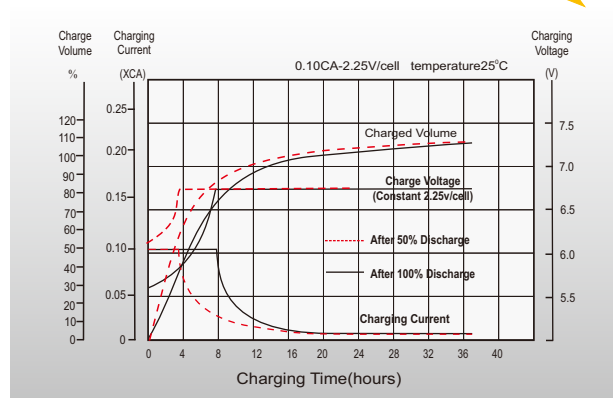
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL Certified

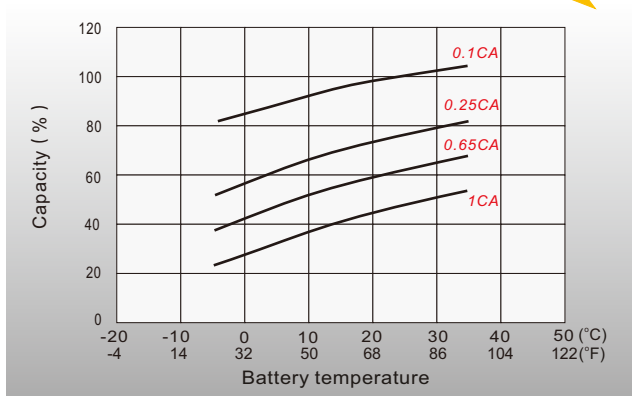
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

