

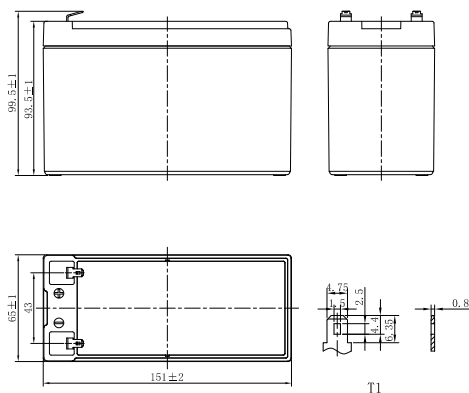
### 77222 LPL12V7.0Ah(12V7Ah/C20)

#### Specifications

Rated Voltage	12V	
Nominal Capacity	7.0Ah	(C <sub>20</sub> , 1.75V/cell)
Dimension	Length	151±2mm
	Width	65±1mm
	Container Height	93.5±1mm
	Total Height	99.5±1mm
Approx Weight	2.43 Kg	
Terminal	T1	
Container Material	ABS	
Rated Capacity (25°C)	7.00 Ah	(20hr, 0.350A, 1.75V/cell)
	6.92 Ah	(10hr, 0.692A, 1.75V/cell)
	6.40 Ah	(5hr, 1.28A, 1.75V/cell)
	5.76 Ah	(3hr, 1.92A, 1.75V/cell)
	4.88 Ah	(1hr, 4.88A, 1.60V/cell)
Max. Discharge Current	105.0A (5s)	
Internal Resistance (25°C)	Approx 21mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C
	Charge	-20 ~ 40°C
	Storage	-15 ~ 40°C
Nominal Operating Temp. Range	25±3°C	
Cycle Use	Initial Charging Current less than 2.1A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.1A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	LPL series batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



#### Layout



#### Constant Current Discharge (Amperes) at 25 °C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.5	12.3	10.0	7.46	5.48	4.47	2.60	1.86	1.47	1.24	1.06	0.837	0.676	0.343
1.80V/cell	16.3	12.8	10.3	7.65	5.58	4.56	2.64	1.89	1.49	1.26	1.08	0.847	0.684	0.347
1.75V/cell	17.1	13.2	10.6	7.83	5.70	4.64	2.68	1.92	1.51	1.28	1.09	0.857	0.692	0.350
1.70V/cell	17.9	13.7	11.0	8.01	5.80	4.72	2.72	1.95	1.53	1.29	1.11	0.868	0.700	0.354
1.65V/cell	18.4	14.0	11.2	8.12	5.87	4.77	2.74	1.96	1.54	1.30	1.11	0.875	0.705	0.356
1.60V/cell	19.5	14.6	11.6	8.37	6.03	4.88	2.80	2.00	1.57	1.33	1.13	0.889	0.716	0.361

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	29.7	23.6	19.3	14.4	10.6	8.70	5.08	3.66	2.90	2.46	2.11	1.66	1.34	0.686
1.80V/cell	31.0	24.4	19.8	14.7	10.8	8.84	5.15	3.71	2.93	2.49	2.13	1.68	1.36	0.693
1.75V/cell	32.3	25.2	20.3	15.0	11.0	8.96	5.21	3.76	2.97	2.52	2.15	1.70	1.37	0.700
1.70V/cell	33.6	25.9	20.8	15.3	11.1	9.09	5.28	3.80	3.00	2.54	2.18	1.72	1.39	0.708
1.65V/cell	34.4	26.4	21.1	15.4	11.2	9.17	5.32	3.83	3.02	2.56	2.19	1.73	1.40	0.712
1.60V/cell	36.2	27.4	21.8	15.8	11.5	9.34	5.41	3.90	3.07	2.60	2.23	1.75	1.42	0.722

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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

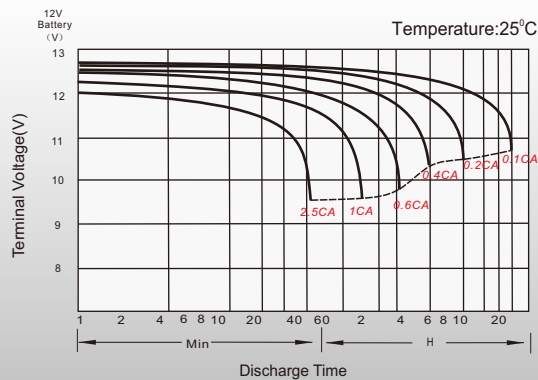
### General Features

- 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

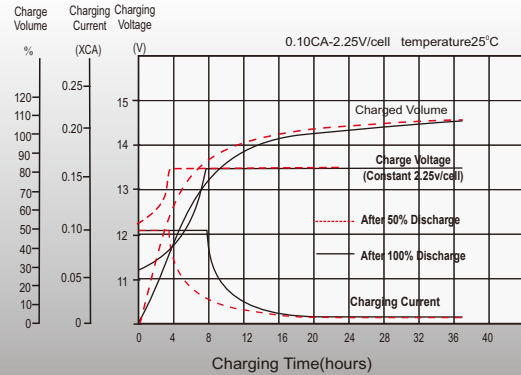
### Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- ATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

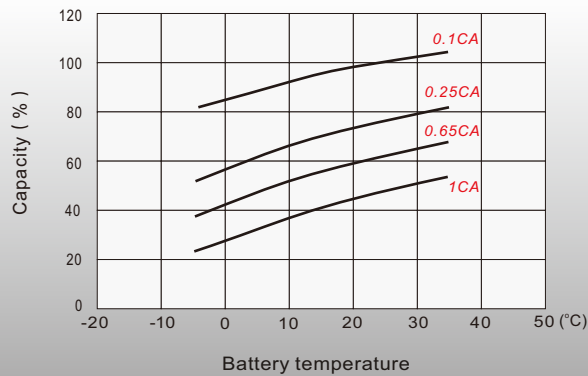
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

