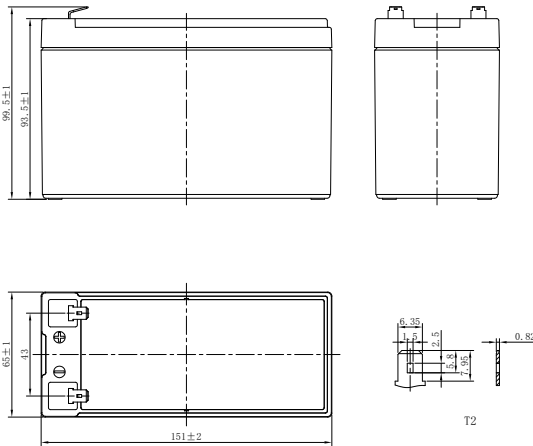


LPL SERIES-LONG LIFE STANDBY

LPL12-7.0 (12V7.0Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ , 1.75V/cell	7.0Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.50kg (5.51lbs)	
Terminal	T2/T1	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	201.6A	
Internal Resistance (25°C)	Approx 28 mΩ (Fully charged)	
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)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	
	-5mV/cell/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). LPL series batteries may be stored 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.	

DISCHARGE TABLE

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	22.4	15.4	11.8	9.85	7.25	5.30	4.31	3.14	2.46	1.78	1.42	1.21	1.03	0.810	0.665	0.352
1.80V/cell	24.1	16.3	12.4	10.2	7.48	5.44	4.42	3.20	2.51	1.81	1.44	1.22	1.05	0.830	0.674	0.356
1.75V/cell	25.4	16.9	12.8	10.5	7.67	5.56	4.51	3.26	2.56	1.84	1.46	1.24	1.06	0.830	0.681	0.360
1.70V/cell	26.6	17.6	13.2	10.8	7.87	5.69	4.59	3.32	2.59	1.86	1.48	1.26	1.07	0.840	0.688	0.363
1.67V/cell	27.5	18.1	13.5	11.1	8.00	5.78	4.66	3.36	2.62	1.88	1.49	1.27	1.08	0.850	0.693	0.366
1.60V/cell	29.2	18.9	14.0	11.4	8.22	5.92	4.77	3.43	2.68	1.92	1.52	1.29	1.10	0.860	0.702	0.370

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	42.4	29.2	22.6	19.0	14.0	10.3	8.39	6.13	4.83	3.50	2.79	2.38	2.04	1.61	1.32	0.704
1.80V/cell	45.1	30.8	23.5	19.6	14.4	10.5	8.56	6.23	4.90	3.55	2.83	2.41	2.07	1.64	1.34	0.712
1.75V/cell	47.0	31.8	24.2	20.1	14.7	10.7	8.71	6.33	4.98	3.59	2.86	2.44	2.09	1.65	1.35	0.720
1.70V/cell	48.8	32.8	24.8	20.5	15.0	10.9	8.84	6.42	5.04	3.64	2.90	2.47	2.12	1.67	1.36	0.726
1.67V/cell	50.0	33.5	25.4	20.9	15.2	11.1	8.96	6.49	5.09	3.67	2.92	2.49	2.13	1.68	1.37	0.732
1.60V/cell	52.1	34.5	26.0	21.4	15.6	11.3	9.12	6.60	5.17	3.73	2.96	2.52	2.16	1.70	1.39	0.740

LPL SERIES-LONG LIFE STANDBY

LPL12-7.0 (12V7.0Ah)



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

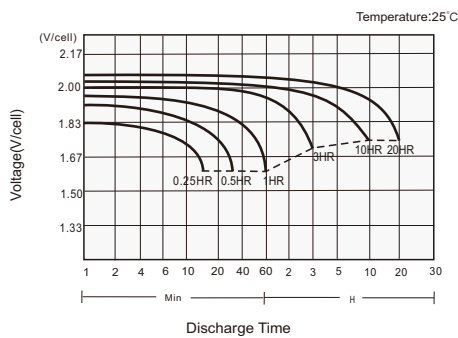
GENERAL FEATURES

- 10~12 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

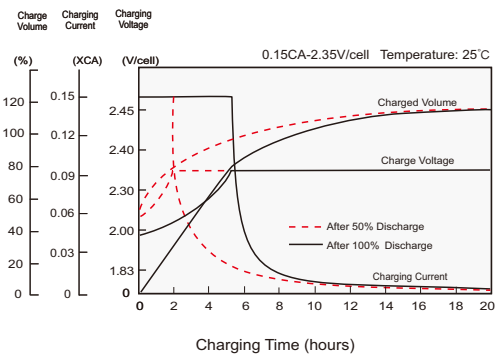
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

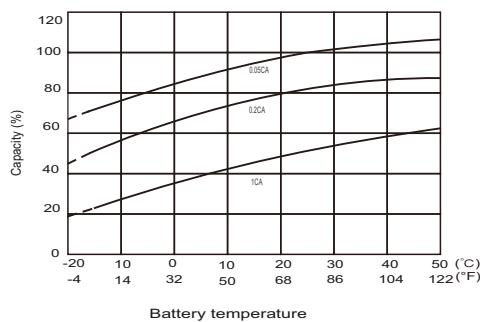
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

