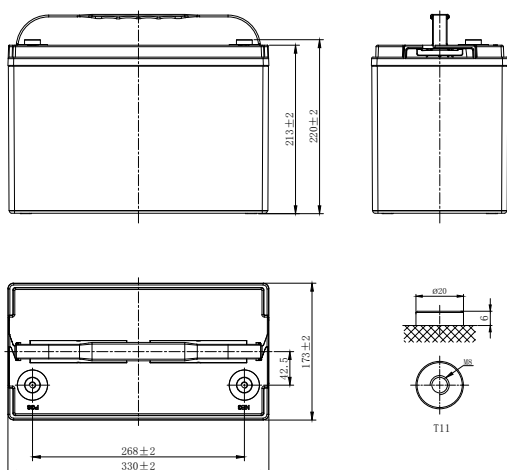


LPL SERIES-LONG LIFE STANDBY

LPL12-100(P) (12V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	330mm (13.0inches)
	Width	173mm (6.81inches)
	Container Height	213mm (8.39inches)
	Total Height	220mm (8.66inches)
Approx Weight	28.2kg (62.2lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2000A	
Internal Resistance (25°C)	Approx 4.0 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	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	169.2	141.7	110.9	92.4	65.9	54.7	33.4	24.5	19.2	16.7	14.7	11.5	9.36	4.96
1.80V/cell	188.0	162.4	123.8	100.2	69.8	56.7	34.4	26.6	20.5	17.5	15.8	12.0	10.0	5.15
1.75V/cell	201.3	170.2	132.7	102.2	72.3	59.5	36.3	27.1	20.9	17.8	15.9	12.5	10.1	5.20
1.70V/cell	212.7	179.8	139.9	104.2	73.7	60.7	37.0	27.6	21.2	18.1	16.0	12.6	10.2	5.25
1.67V/cell	218.5	184.6	143.4	105.6	74.7	61.6	37.5	27.9	21.6	18.5	16.1	12.8	10.3	5.31
1.60V/cell	225.6	189.8	148.0	107.1	75.8	62.5	38.1	28.1	21.8	18.8	16.2	12.9	10.4	5.38
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	316.7	270.9	203.2	179.3	124.3	105.9	64.9	47.8	37.7	33.9	29.0	22.4	18.9	9.89
1.80V/cell	355.2	283.2	224.2	188.8	130.8	109.1	66.7	51.7	40.1	35.2	31.1	23.5	19.7	10.2
1.75V/cell	370.5	310.7	238.8	190.3	134.7	114.0	69.9	52.5	40.7	35.6	31.2	23.6	19.8	10.3
1.70V/cell	385.3	322.0	249.6	195.5	136.5	115.6	71.0	53.3	41.2	36.0	31.3	23.9	20.1	10.4
1.67V/cell	393.6	333.9	251.6	197.4	137.7	116.7	71.8	53.6	41.7	36.5	31.4	24.2	20.3	10.5
1.60V/cell	392.0	337.5	266.0	197.9	138.4	117.5	72.3	53.8	42.0	37.0	31.5	24.5	20.4	10.6

LPL SERIES-LONG LIFE STANDBY

LPL12-100(P) (12V100Ah)



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

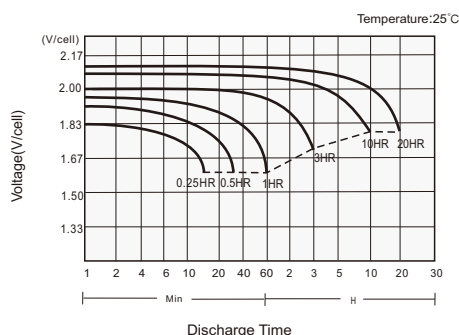
GENERAL FEATURES

- 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

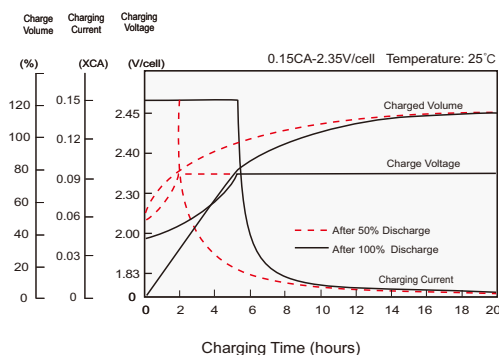
STANDARDS

- 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

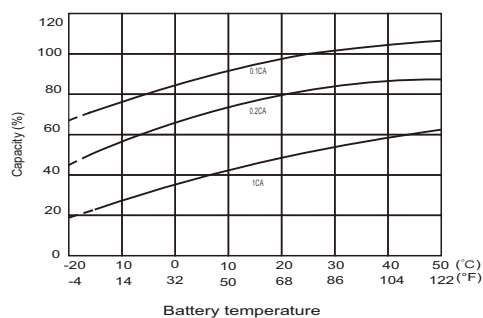
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

