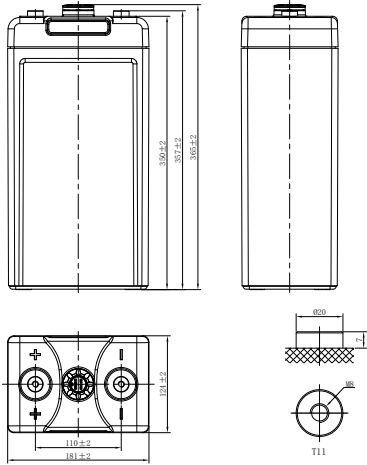


# LPL SERIES-LONG LIFE STANDBY

## LPL2-300M (2V300Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> : 1.80V/cell	300Ah
Dimension	Length	124mm (4.88inches)
	Width	181mm (7.13inches)
	Container Height	350mm (13.8inches)
	Total Height	365mm (14.4inches)
Approx Weight	18.0kg (39.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3900A	
Internal Resistance (25°C)	Approx 0.8 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%
	≤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.	
Self Discharge		

### DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)												
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	194.2	152.4	131.5	120.4	90.8	70.2	56.5	47.7	41.4	33.6	28.1	15.7
1.80V/cell	213.6	175.7	156.8	124.4	96.7	76.0	60.9	51.3	44.4	36.0	30.0	15.9
1.75V/cell	248.5	195.4	168.9	129.3	101.7	78.0	62.4	52.5	45.3	36.7	30.5	16.1
1.70V/cell	267.9	207.3	177.0	134.9	104.6	80.3	64.0	53.7	46.3	37.3	30.9	16.3
1.67V/cell	275.7	211.7	179.7	135.4	105.0	81.5	64.9	54.4	46.8	37.7	31.2	16.4
1.60V/cell	278.9	218.6	188.4	140.8	109.4	84.7	65.8	55.4	47.6	38.0	31.6	16.5
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	369.9	323.0	299.5	236.9	177.7	137.7	111.0	93.8	81.6	66.4	55.6	30.0
1.80V/cell	398.0	342.3	314.5	241.7	186.4	148.4	119.2	100.8	87.3	71.0	59.3	31.6
1.75V/cell	456.3	372.4	330.4	251.4	194.2	151.7	121.7	102.7	88.9	72.1	60.1	32.0
1.70V/cell	485.4	385.2	335.1	256.8	199.0	155.4	124.4	104.8	90.5	73.3	60.9	32.3
1.67V/cell	493.6	390.7	339.3	260.8	202.1	157.3	125.8	105.8	91.5	73.9	61.4	32.6
1.60V/cell	524.1	409.6	352.3	270.1	208.9	162.1	129.3	108.6	93.6	75.4	62.6	33.1

# LPL SERIES-LONG LIFE STANDBY

## LPL2-300M (2V300Ah)



### APPLICATIONS

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)
- EPS

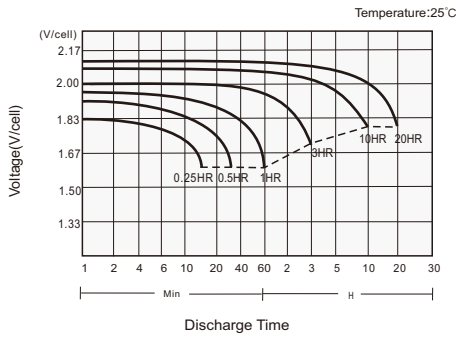
### GENERAL FEATURES

- 16 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

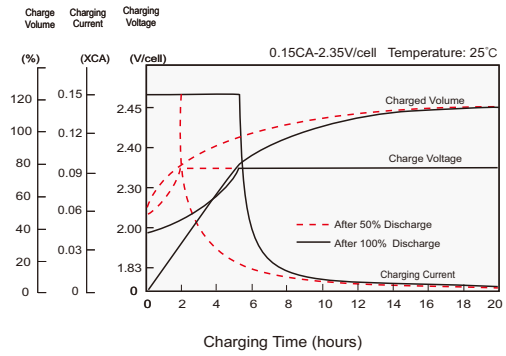
### STANDARDS

- 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

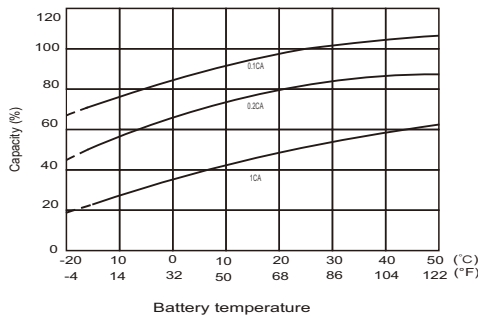
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

