LPL SERIES-Long Life Standby

LPL2-2500 (2V2500AH)

Specification

Nominal Voltage	2V
Nominal Capacity(10HR)	2500.0AH
Dimension	Length 490±3mm (19.29 inches) Width 350±3mm (13.78 inches) Container Height 339±3mm (13.35 inches) Total Height (with Terminal) 349±3mm (13.74 inches)
Approx Weight	Approx138.0 Kg (304.3lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	2668.0 AH/133.4A (20hr ,1.80V/cell,25°C/77°F) 2500.0 AH/250.0A (10hr,1.80V/cell,25°C/77°F) 2218.5 AH/443.7A (5hr,1.75V/cell,25°C/77°F) 1929.9 AH/643.3A (3hr,1.75V/cell,25°C/77°F) 1501.6 AH/1501.6A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	20000A (5s)
Internal Resistance	Approx 0.25mΩ
Operating Temp.Range	Discharge : -15~50°C (5~122°F) Charge : 0~40°C (32~104°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 750.0A.Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Leoch 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.

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*

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1875.9	1504.0	1254.0	777.5	593.3	485.1	413.1	360.8	288.8	240.8	128.8
1.80V/cell	/	1582.3	1311.3	812.5	622.5	506.8	430.4	377.0	301.3	250.0	133.4
1.75V/cell	/	1663.8	1368.2	845.0	643.3	524.0	443.7	385.9	307.2	253.3	134.0
1.70V/cell	/	1726.5	1416.1	878.8	663.3	535.5	451.4	392.7	312.5	256.3	135.5
1.65V/cell	/	1801.7	1467.1	907.5	678.3	547.0	461.0	399.5	317.2	259.3	136.9
1.60V/cell	/	1850.1	1501.6	925.0	690.0	554.6	467.7	405.0	321.9	263.0	137.9

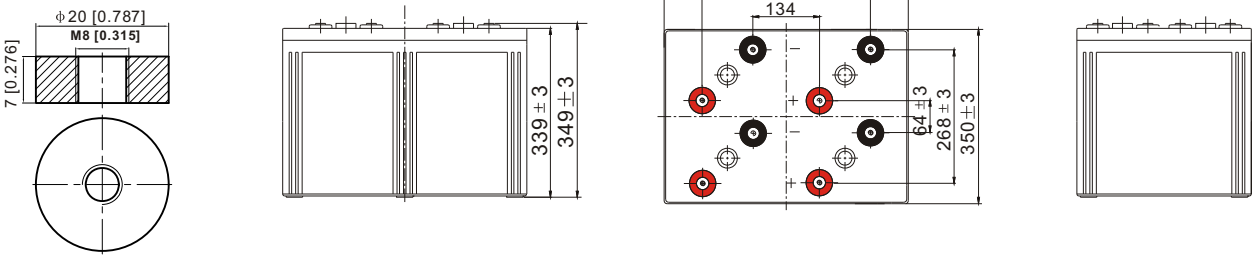
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3585.0	2891.7	2425.6	1512.3	1159.6	951.5	813.8	713.0	573.0	478.9	256.4
1.80V/cell	/	3022.3	2522.3	1572.8	1210.8	990.7	844.2	741.9	596.0	496.5	265.1
1.75V/cell	/	3159.2	2620.2	1629.2	1248.1	1020.8	867.3	757.1	606.4	502.3	266.1
1.70V/cell	/	3255.4	2697.6	1687.2	1282.0	1038.9	879.6	769.3	616.3	507.9	268.9
1.65V/cell	/	3378.1	2778.8	1735.0	1305.2	1057.6	895.3	780.2	623.9	513.1	271.3
1.60V/cell	/	3436.6	2824.6	1757.5	1320.8	1067.7	904.6	788.6	631.8	519.6	272.9

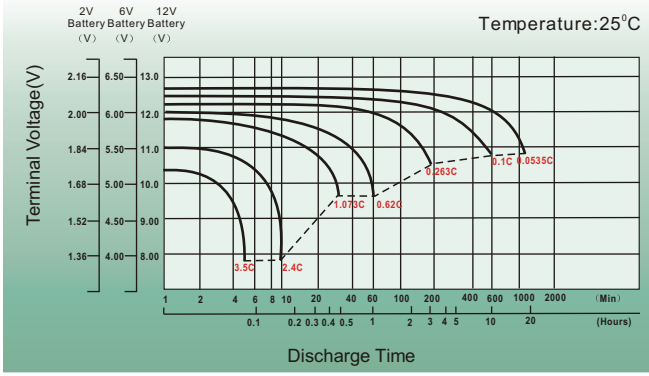
Dimensions

T11 Terminal

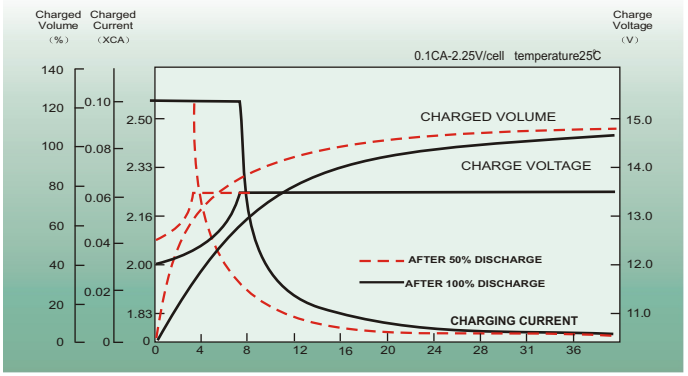
Unit: mm [inches]



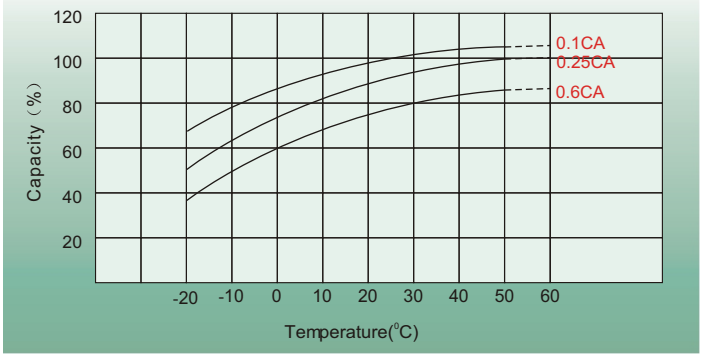
Discharge Characteristics



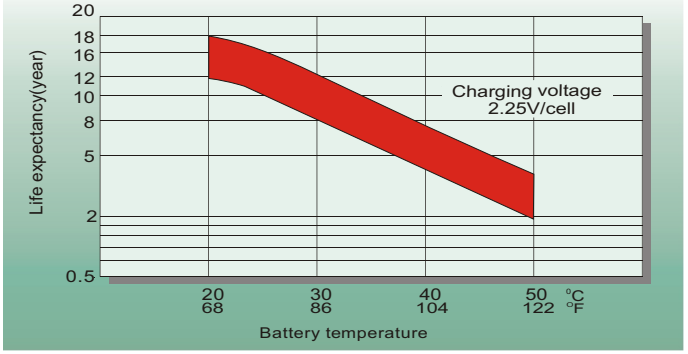
Float Charging Characteristics

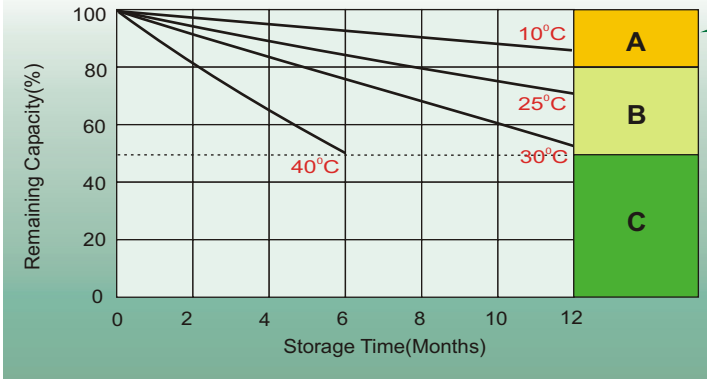


Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life





Self Discharge Characteristics

A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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