LPF SERIES (Front Terminal AGM VRLA BATTERY)

LPF12-150B (12V, 155.7Ah, 511.2 WPC)

Specification

Nominal Voltage	12V (6cells)
Nominal Capacity (25°C/77°F)	155.7Ah/10hr, 1.80V/cell 150.0Ah/8hr, 1.75V/cell 511.2WPC/15min, 1.67V/cell
Dimension	Length 560±2mm (22.05inch) Width 110±2mm (4.33inch) Container Height 280±2mm (11.02inch) Total Height(With Terminal) 280±2mm (11.02inch)
Weight	Approx 43.8Kg (96.6 lbs)
Terminal	T13 with Tin plated copper alloy insert (M6 bolt).
Container Material	ABS to UL94 HB (Optional UL94-V0 Flame retardant jars available)
Rated Capacity (25°C/77°F)	165.0Ah/8.25A (20hr, 1.80V/cell) 155.7Ah/15.57A (10hr, 1.80V/cell) 150.0Ah/18.75A (8hr, 1.75V/cell) 141.5Ah/28.3A (5hr, 1.75V/cell) 103.8Ah/103.8A (1hr, 1.60V/cell)
Max. Discharge Current	1200A (5s)
Internal Resistance	Approx 3.0mΩ (Full charged)
Operating Temp. Range	Discharge: -15~50°C (5~122°F) Charge: 0~40°C (32~104°F) Storage: -15~40°C (5~104°F)
Recommended Temp Range	20~25°C (68 ~77°F)
Standby (Float) Use	No limit on Initial Charging Current. 13.5V~13.8V/cell at 25°C (77°F). Temperature Coefficient: -20mV/°C.
Capacity Affected by Temperature	40°C (104°F) 106% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	LPF series can be stored for up to 6 months at 25°C (77°F) and then a fresh recharge is required. For higher temperature the time interval will be shorter.

Front Terminal Post

Application

- For standard19" or 23" rack /cabinet
- Wired and Wireless Telecom
- Data center UPS
- Emergency Lighting
- Power station
- Railway and marine systems

Certification

- UI1989 (UL No. MH26866)
- CE-EMC Directive 2004/108/EC
- Directive 2006/66/EC
- Third party Test & Approved to IEC60896-21 & 22, 2004
- YD/T 799-2010

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	260.9	217.5	186.6	146.4	113.5	92.3	55.0	39.6	31.8	26.3	22.9	17.85	14.89	7.89
1.80V/cell	295.8	242.4	206.6	160.2	122.1	98.5	58.0	42.2	33.5	27.7	24.1	18.75	15.57	8.25
1.75V/cell	324.6	262.3	220.4	168.3	126.8	102.0	59.2	42.8	34.3	28.3	24.5	18.98	15.75	8.37
1.70V/cell	347.2	276.3	229.3	173.2	129.7	103.4	60.0	43.3	34.5	28.5	24.8	19.25	15.90	8.43
1.67V/cell	359.3	283.1	234.1	175.4	130.2	103.8	60.2	43.5	34.8	28.8	25.1	19.50	16.05	8.48
1.60V/cell	377.7	294.0	244.5	179.9	133.6	106.5	61.2	44.4	35.6	29.6	25.5	19.95	16.35	8.52

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

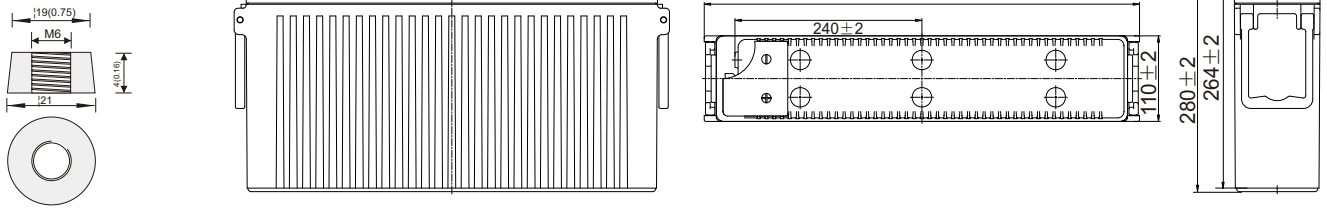
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	487.1	410.2	355.5	281.9	220.4	179.8	108.0	78.0	62.8	52.2	45.5	35.6	29.8	15.78
1.80V/cell	545.8	451.0	387.8	303.8	235.3	190.9	113.1	82.6	65.8	54.6	47.6	37.3	31.1	16.48
1.75V/cell	589.5	482.2	409.9	316.6	242.0	196.8	114.9	83.5	67.2	55.7	48.2	37.6	31.4	16.70
1.70V/cell	616.5	500.9	423.2	324.1	246.7	198.8	116.2	84.2	67.5	55.8	48.7	38.1	31.7	16.81
1.67V/cell	635.4	511.2	430.2	327.6	246.8	199.2	116.4	84.5	67.9	56.4	49.2	38.6	31.9	16.88
1.60V/cell	649.5	520.3	443.1	331.5	250.5	202.4	117.3	85.7	69.0	57.6	49.9	39.4	32.5	16.95

Specification subject to change without notice

Dimensions

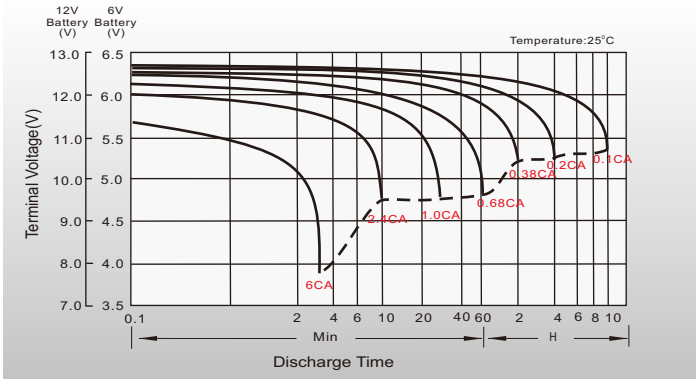
T13 Terminal

Unit: mm [inches]

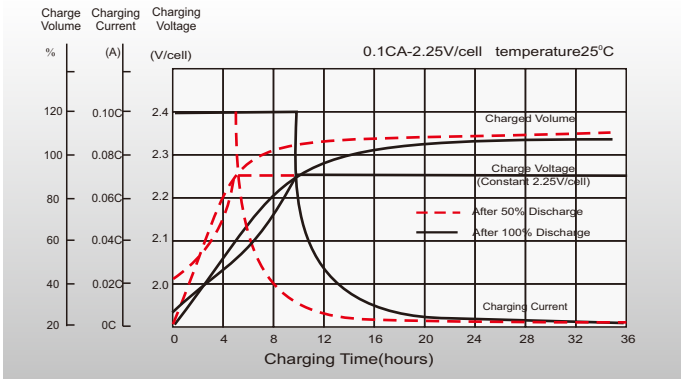


Performance Curve

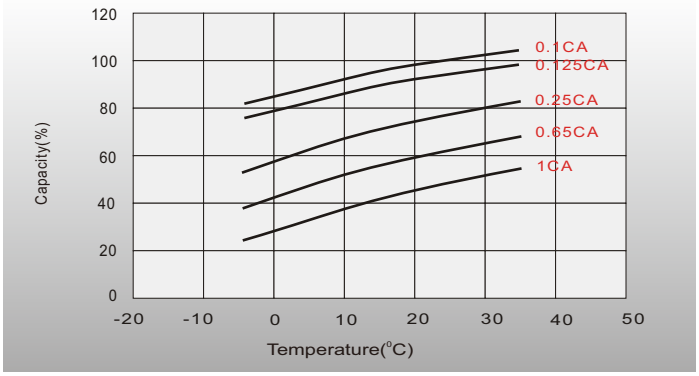
Discharge Characteristics



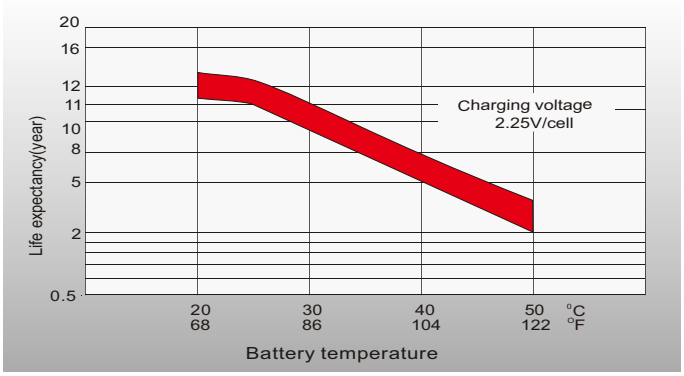
Float Charging Characteristics



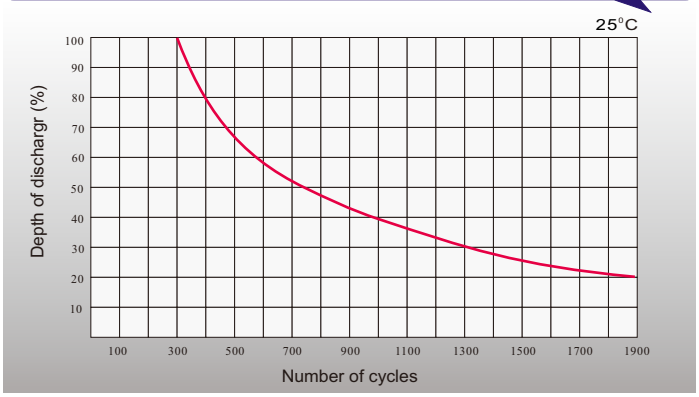
Temperature Effects in Relation to Battery Capacity



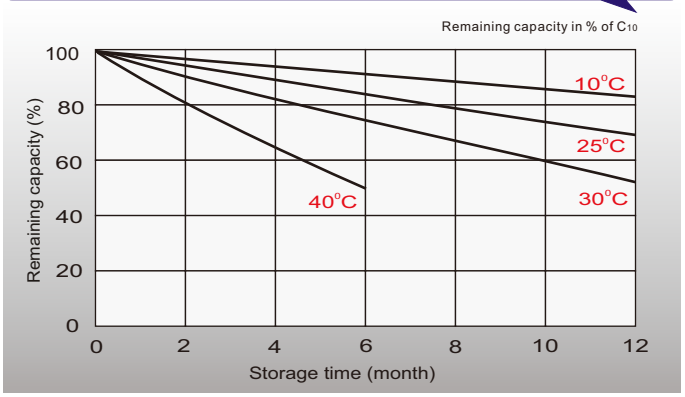
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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Publication No.:LB-LPF-02-16