

PLH190FT(12V190AH)

PLH SERIES-LONG STANDBY LIFE

Applications

- All purpose
- Telecommunication
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup powersupply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system
- Network Communication

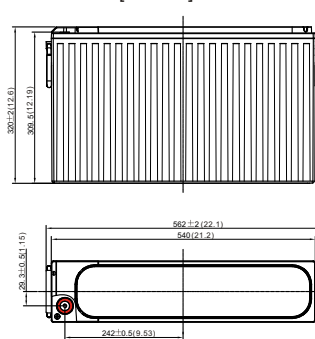


Key Features

- Design life up to 20 years
- High-rate performance
- Low internal resistance
- Low self-discharging rate
- High energy density
- Fast charging acceptance
- Heat sealed plastic container
- Flame retardant to UL94-V0
- Up to 2 years shelf life @25°C (77°F)
- Design according with IEC 60896-21/22:2004

Layout

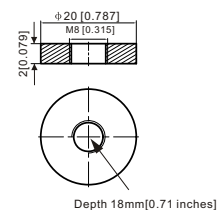
Unit: mm [inches]



Terminal

Terminal Model: T11

Unit: mm [inches]



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Specification

Nominal Voltage	12V
Rated Capacity (Ah)	10hr 190Ah @25 °C to 1.80V/cell 8hr 188Ah @25 °C to 1.75V/cell
Dimension	Length 562±3mm (22.1 inches) Width 125±2mm (4.92 inches) Container Height 320±3mm (12.60 inches) Total Height (with Terminal) 320±3mm (12.60 inches)
Approx Weight	Approx 60.0Kg (132.3lbs)
Terminal	T11
Container Material	ABS
Max. Discharge Current	1500A (5s)
Internal Resistance	Approx 3.0mΩ
Operating Temp.Range	Discharge : -40~65°C (-40~149°F) Charge : 0~40°C (32~104°F) Storage : -20~40°C (-4~104°F)
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	PLH series batteries can be stored up to 24 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	353.9	293.2	262.1	194.7	151.6	123.2	73.9	53.2	43.1	35.4	23.2	18.79	9.71
1.80V/cell	399.7	325.0	286.9	209.6	160.7	129.3	76.0	54.5	43.8	35.9	23.4	19.00	9.82
1.75V/cell	443.9	355.1	310.0	223.3	168.9	134.7	77.9	55.5	44.3	36.2	23.5	19.11	9.93
1.70V/cell	484.9	382.5	330.8	235.3	176.0	139.4	79.4	56.3	44.8	36.5	23.6	19.21	10.03
1.67V/cell	507.2	397.1	341.8	241.5	179.7	141.8	80.2	56.7	45.0	36.7	23.7	19.21	10.14
1.60V/cell	546.1	424.9	362.3	253.1	186.4	146.1	81.6	57.4	45.4	36.9	23.8	19.32	10.25

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	646.0	547.4	492.3	370.3	292.4	239.6	144.9	105.1	85.7	70.7	46.5	37.78	19.64
1.80V/cell	713.6	594.7	529.1	392.6	306.2	249.2	148.5	107.0	87.0	71.5	46.9	38.11	19.75
1.75V/cell	777.1	638.6	562.8	412.8	318.7	257.6	151.6	108.7	88.0	72.1	47.1	38.32	19.96
1.70V/cell	834.5	677.7	592.8	430.5	329.4	264.9	154.2	110.0	88.9	72.7	47.3	38.43	20.17
1.67V/cell	865.0	698.4	608.5	439.7	335.0	268.5	155.5	110.6	89.3	73.1	47.3	38.43	20.28
1.60V/cell	922.2	736.8	637.5	456.5	345.0	275.2	157.7	111.7	90.0	73.4	47.5	38.64	20.39

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