

PLH100FT(12V100AH)

PLH SERIES-LONG STANDBY LIFE

Applications

- All purpose
- Telecommunication
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- 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

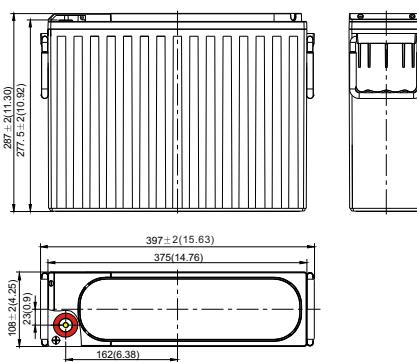


Key Features

- 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

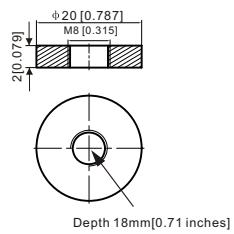
Unit: mm [inches]



Terminal

Terminal Model: T11

Unit: mm [inches]



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Specification

Nominal Voltage	12V
Rated Capacity (Ah)	10hr 100Ah @25 °C to 1.80V/cell 8hr 96Ah @25 °C to 1.75V/cell
Dimension	Length 397±3mm (15.63 inches) Width 108±2mm (4.25 inches) Container Height 287±2mm (11.30 inches) Total Height (with Terminal) 287±2mm (11.30 inches)
Approx Weight	Approx 31.0Kg (68.2lbs)
Terminal	T11
Container Material	ABS
Max. Discharge Current	1200A (5s)
Internal Resistance	Approx 4.5mΩ
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	180.9	152.1	131.3	99.6	72.7	56.7	31.9	23.6	19.5	16.6	11.7	9.79	5.10
1.80V/cell	203.3	170.1	141.4	105.2	75.9	59.5	33.4	24.8	20.3	17.1	11.9	10.0	5.20
1.75V/cell	221.2	179.3	147.8	108.3	77.7	60.9	34.4	25.5	20.7	17.4	12.0	10.1	5.26
1.70V/cell	236.2	189.6	155.2	112.2	79.6	62.2	35.0	26.0	21.0	17.7	12.2	10.1	5.30
1.67V/cell	251.7	199.2	162.3	116.6	82.4	64.1	35.9	26.6	21.5	18.0	12.3	10.2	5.35
1.60V/cell	265.8	208.4	168.9	120.4	84.8	65.8	37.0	27.2	21.9	18.3	12.5	10.3	5.39

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	343.1	290.4	252.7	194.0	143.5	112.5	63.8	47.3	39.2	33.5	23.6	19.9	10.4
1.80V/cell	380.8	321.1	269.4	203.5	149.2	117.3	66.4	49.5	40.6	34.5	24.0	20.3	10.6
1.75V/cell	408.7	335.3	279.3	207.7	151.7	119.5	68.0	50.7	41.4	34.9	24.2	20.4	10.7
1.70V/cell	430.4	350.2	290.4	213.5	154.5	121.3	68.9	51.5	41.8	35.3	24.4	20.4	10.7
1.67V/cell	453.6	364.4	301.1	220.8	158.9	124.4	70.4	52.5	42.6	35.8	24.7	20.5	10.8
1.60V/cell	470.5	375.2	308.8	225.4	162.0	126.4	71.9	53.2	43.2	36.2	24.9	20.5	10.8

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