LBA TECHNOLOGY

StrikeMaster®

PLP-38PK-MOB (02) Product Datasheet

PORTABLE LIGHTNING PROTECTION SYSTEM

SYSTEM DESCRIPTION

The StrikeMaster® PLP-38PK-MOB (02) is a stand-alone, fully integrated lightning protection system. Our no-tool fasteners and installation hardware are captive for fast installation and to avoid loose parts that could cause foreign object damage at sensitive sites. Installation time is under one hour for two personnel. The base utilizes Ballast Blocks™ and is suitable for non-penetrating application on rooftops and other critical surfaces. This lightning protection system is designed for quick installation as a reusable, fold-over mobile platform for easy assembly and movement in the desired operational area.

SYSTEM FEATURES

- Lightweight, rugged 38’ modular, aluminum alloy mast
- Mobility-enabled base assembly
- Grounding attachment components
- UL-listed air terminal
- Ballast Blocks™ system
- Two rugged, hard cover, man-portable transport cases
- Wind load equivalent up to 120 mph when appropriately deployed
- Weather-resistant alodine coating

ASSEMBLED SYSTEM SPECIFICATIONS

- Height 38’ (11.58 m)
- Base circumference of 10.8’ (3.29 m)

KITTED MAST SYSTEM IN HARD CASE SPECIFICATIONS

- Length 85.5” (2172 mm)
- Width 20” (508 mm)
- Height 18” (458 mm)
- Weight 270 lbs. (123 kg)

KITTED BALLAST BLOCKS® IN HARD CASE SPECIFICATIONS

- Length 43” (1092 mm)
- Width 22” (559 mm)
- Height 24” (610 mm)
- Weight 38 lbs. (17.2 kg) empty
- Weight 77 lbs. (34.9 kg) with Ballast Blocks®



Deploying the PLP-38PK-MOB (02)

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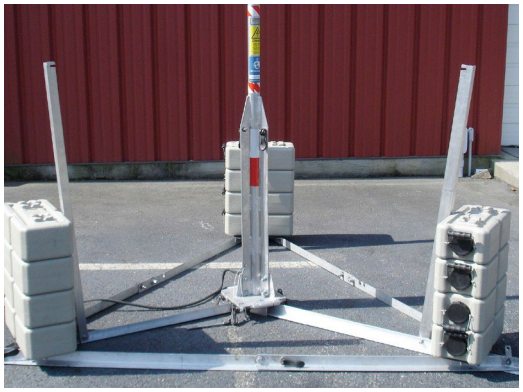
FUNCTIONALITY

The function of the system is to provide a highly conductive, rapidly deployable structure designed to intercept and safely conduct lightning energy to ground, thereby reducing the risk of lightning-related damage to assets and facilities within the protected area. The PLP-38PK-MOB (02) incorporates streamer discharge dissipation technology to help reduce the probability of direct lightning attachment and serves as a UL-Listed air terminal for lightning strike interception and termination when required.



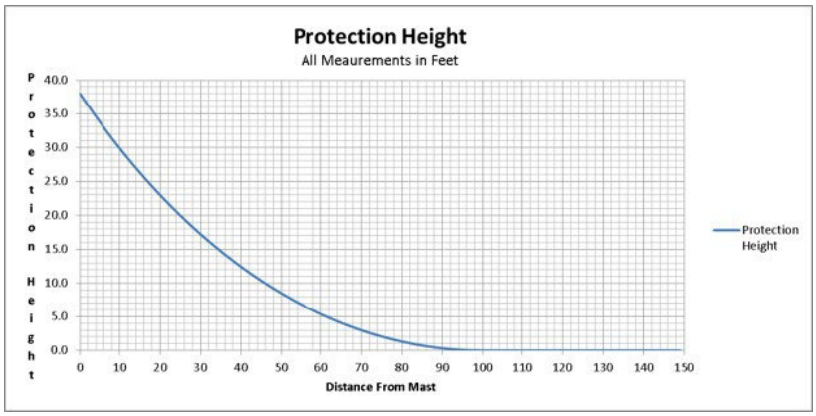
PLP-38PK-MOB (02) components displayed in loading order, right to left

The zone of protection provided by the PLP-38PK-MOB (02) is determined using the rolling ball method described in NFPA 70. This method evaluates protection by considering an imaginary sphere of a specified radius that simultaneously contacts the top of the lightning protection system and the ground. Assets that do not penetrate the surface of the sphere are considered to be within the protected zone.



PLP-38PK-MOB (02) base ready for move or disassemble

A commonly used rolling ball radius is 150 feet (45.72 m). The graph below illustrates the calculated zone of protection provided by the PLP-38PK-MOB (02) based on a 150-foot rolling ball radius.



StrikeMaster® PLP-38PK-MOB (02) Zone of Protection for 150' Rolling Ball

It is the user's responsibility to determine the protection parameters suitable to their intended use.



PLP-38PK-MOB (02) packed in transport cases

The StrikeMaster® PLP-38PK-MOB (02) is designed for minimum maintenance. Normal requirements are only routine inspection of base components and tightening of ground system attachment hardware if needed. Standard customer practices should be employed to protect the deployed system from unauthorized personnel or vehicular contact. For maintenance support, replaceable spare kits are available.

NOTE: PLP masts are rated to 120 mph wind survival. However, base ballasts or hold-downs must be adequately designed (loaded) to prevent overturning (See instruction manual).

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