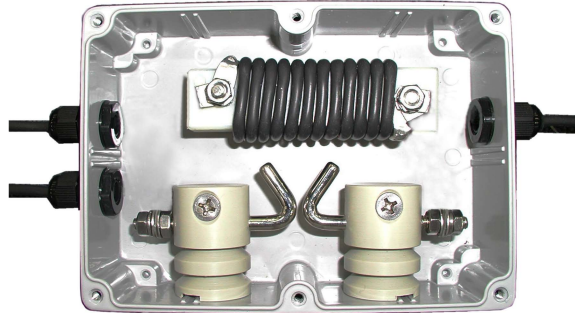




M O O N R A K E R

Type LPU

**MF to HF Lightning Protection Unit
for marine and land based antenna systems**



The Moonraker LPU is a horn gap overvoltage lightning protection system designed to be placed in MF/HF open wire antenna feeders. It gives an easy path to earth for high voltage static charges, such as those induced in the antenna system by lightning induction and other electromagnetic disturbances. When used with the CSS Coaxial Surge Suppressor, the range is extended to cover all frequencies from MF to 2 GHz.

The solid copper, nickel plated horns are mounted upon special ribbed high voltage insulators which facilitate easy horn gap adjustment. The device is completely enclosed in an IP56 rated (weatherproof) cast aluminium housing, finished with a high durability epoxy based coating, highly resistant to chemical attack, abrasion and the effects of ozone and ultra violet radiation. It is designed to be back mounted externally, close to the antenna feed point. The LPU metal housing ensures it is intrinsically safe from fire and explosion.

The unit exhibits low capacitance to earth in order to cause minimal effect upon antenna tuning. As most antenna tuning units (ATUs) provide little resistance to high reverse voltages, we also recommend that a Coaxial Surge Suppressor be fitted in the 50• coaxial cable between the ATU and the transmitter for HF installations.

Specifications

LPU	Tested in accordance with ANSI C6241 Category B, ie 45kV 1.2/50 micro second (rise/fall times) voltage pulse, 5kA 8/20 microsecond current pulse; observed breakdown with continuous RF at 3.3 MHz 1.5mm gap, 3.5kV rms (refer to installation instructions)
Housing Dimensions	55H x 120W x 170Lmm L (215mm including cable glands)
Maximum RF Power	1.2kW PEP
Adjustment	Screwdriver clamps on horns using feeler (thickness) gauges (refer to installation instructions)
Connection	1metre Moonraker HV silicone insulated antenna cable supplied at each end for connection to antenna feed stud, ATU and to earth
Weight	910g (2 lbs)
Packed Weight	1.5 kg (3.3 lbs)

Specifications subject to change 7/07

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