

# MOONRAKER

## Type 22W

### Marine HF antenna for vessels over 10.5 metres (34.5 feet)

Designed to give high radiating efficiency in demanding service conditions, especially in the 2-13 MHz range.

The 22W, a scaled down model of the 29W, is self supporting and provides high efficiency performance on medium size vessels (over 10.5m) where an 8.8 metre (29 ft) whip is not suitable, such as high speed craft.

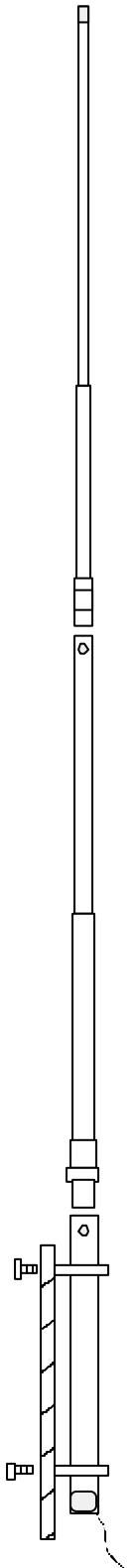
Heavy gauge aluminium alloy tubing, coated with black (optional white) high durability epoxy based coating, resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation, provides a large low loss radiating surface. Fittings are of nylon and stainless steel. Low loss loading coils and/or traps 4 metres (13 ft) from the base are used.

The antenna is assembled from three easily transportable sections, the largest of which is 2.7m (9 ft) long.

It is available unloaded, resonant at a single frequency (the highest to be used - normally 2.6, 4.6 or 6.3 MHz), or resonant at two frequencies (8.3 and 12.4 MHz or 4.6 and 8.3 MHz). For operation on other frequencies, the difference is made up in the ATU.

### Specifications

<b>HF Marine Band</b>	2-30 MHz
<b>Length</b>	6.7 metres (22 ft)
<b>Pattern</b>	Omnidirectional
<b>Polarisation</b>	Vertical
<b>Base Diameter</b>	32mm (1.25 in)
<b>Frequency Range</b>	Pretuned to frequency or frequencies required, or unloaded 2-30 MHz with suitable ATU
<b>Wind Loading</b>	7.7 kg at 100 km/h (16.9 lbs at 60 mph) 13.0 kg at 130 km/h (28.6 lbs at 81 mph)
<b>Power Capability</b>	1 kW PEP for normal loaded or unloaded top sections; 500 W PEP for trapped top sections; higher power to order
<b>Mountings</b>	Two 100mm (4 in) nylon clamp type insulators, 50mm (2 in) diameter, threaded to take ½ inch Whitworth bolt (not supplied); insulator spacing not less than 0.9 m (3 ft)
<b>Connection</b>	Silicone insulated flexible cable tail 2.5 m long (8 ft) 56/0.3 tinned copper; length should not exceed that provided for correct operation on the higher frequencies
<b>Packed Weight</b>	7.25 kg (15.95 lbs) with mountings



Specifications subject to change 11/97

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