



### UHP6-59W-P3A/B

1.8 m | 6 ft Ultra High Performance Parabolic Shielded Antenna, single-polarized, 5.925-7.125 GHz, CPR137G, gray antenna, enhanced white radome with flash, standard pack—one-piece reflector

### **Product Classification**

Product Type Microwave antenna

### **General Specifications**

Antenna Type UHP - Ultra High Performance Parabolic Shielded Antenna, single-polarized

Diameter, nominal 1.8 m | 6 ft
Packing Standard pack

Radome Color White
Radome Material Enhanced

Reflector Construction One-piece reflector

Antenna Input CPR137G
Antenna Color Gray

Antenna Type UHP - Ultra High Performance Parabolic Shielded Antenna, single-polarized

Diameter, nominal 1.8 m | 6 ft

Flash Included Yes
Polarization Single

### **Electrical Specifications**

Operating Frequency Band 5.925 – 7.125 GHz

Beamwidth, Horizontal 1.8 °
Beamwidth, Vertical 1.8 °
Cross Polarization Discrimination (XPD) 35 dB

Electrical Compliance ETSI Class 3 | US FCC Part 101A | US FCC Part 74B

Front-to-Back Ratio 75 dB
Gain, Low Band 38.4 dBi
Gain, Mid Band 39.3 dBi
Gain, Top Band 39.9 dBi

Operating Frequency Band 5.925 - 7.125 GHz Radiation Pattern Envelope Reference (RPE) 3492A | 3494A

Return Loss 30.7 dB VSWR 1.06

## **Mechanical Specifications**

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±20°



### UHP6-59W-P3A/B

Mounting Pipe Diameter  $115 \text{ mm} \mid 4.5 \text{ in}$  Net Weight  $115 \text{ kg} \mid 254 \text{ lb}$ 

Side Struts, Included 1 inboard
Side Struts, Optional 1 inboard

Wind Velocity Operational 110 km/h | 68 mph Wind Velocity Survival Rating 200 km/h | 125 mph

### Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max -130 °

Axial Force (FA) 7744 N | 1741 lbf Side Force (FS) 3836 N | 862 lbf

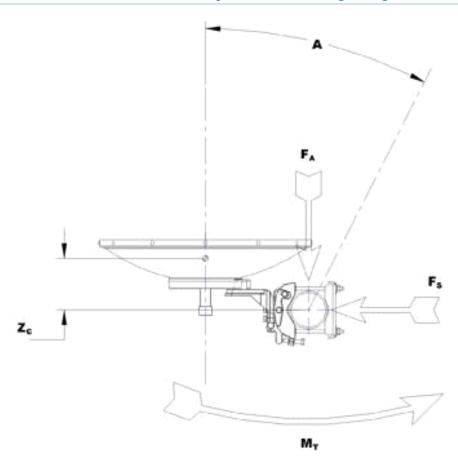
Twisting Moment (MT) 2955 N•m

Weight with 1/2 in (12 mm) Radial Ice 235 kg | 518 lb Zcg with 1/2 in (12 mm) Radial Ice 660 mm | 26 in Zcg without Ice 466 mm | 18 in



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## Wind Forces At Wind Velocity Survival Rating Image



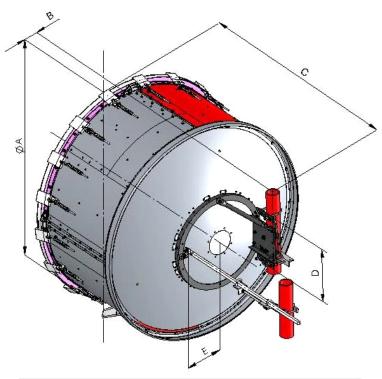
### **Packed Dimensions**

Gross Weight, Packed Antenna	165.0 kg   363.8 lb
Height	2120.0 mm   83.5 in
Length	2070.0 mm   81.5 in
Volume	3.9 m³
Width	880.0 mm   34.6 in



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### **Antenna Dimensions And Mounting Information**



Dimensions in Inches (mm)						
Antenna Size, ft (m)	Α	В	С	D	E	
6 (1.8)	77.5 (1970)	17.1 (435)	53.3 (1355)	19.3 (490)	11.7 (296)	

## **Regulatory Compliance/Certifications**

**Agency** Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

### \* Footnotes

Axial Force (FA) Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the

mounting pipe.

Cross Polarization Discrimination (XPD) The difference between the peak of the co-polarized main beam and the

maximum cross-polarized signal over an angle twice the 3 dB beamwidth of

the co-polarized main beam.

Front-to-Back Ratio Denotes highest radiation relative to the main beam, at 180° ±40°, across

the band. Production antennas do not exceed rated values by more than 2

dB unless stated otherwise.

Gain, Mid Band For a given frequency band, gain is primarily a function of antenna size. The

gain of Andrew antennas is determined by either gain by comparison or by

computer integration of the measured antenna patterns.



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Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Packing Andrew standard packing is suitable for export. Antennas are shipped as

standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing

options.

Radiation Pattern Envelope Reference (RPE) Radiation patterns define an antenna's ability to discriminate against

unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an

angular accuracy of +/-1° throughout

Return Loss The figure that indicates the proportion of radio waves incident upon the

antenna that are rejected as a ratio of those that are accepted.

Side Force (FS)

Maximum side force exerted on the mounting pipe as a result of wind from

the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the

mounting pipe.

Twisting Moment (MT) Maximum forces exerted on a supporting structure as a result of wind from

the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the

mounting pipe.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

Wind Velocity Operational The wind speed where the antenna deflection is equal to or less than 0.1

degrees. In the case of ValuLine antennas, it is defined as a maximum

deflection of 0.3 x the 3 dB beam width of the antenna.

Wind Velocity Survival Rating The maximum wind speed the antenna, including mounts and radomes,

where applicable, will withstand without permanent deformation.

Realignment may be required. This wind speed is applicable to antenna with

the specified amount of radial ice.