

HPX0505F

X Pol Panel Stadium Antenna 2300-2700MHz 50° 11dBi 0° FET

电性能参数 Electrical Specifications

频率 Frequency Range (MHz):	2300-2700
增益 Gain (dBi):	11.0
回波损耗 Return Loss (dB):	>14 (VSWR<1.5)
极化方式 Polarization (°):	±45
3dB 水平($\varphi=0^\circ$)波束宽度 Horizontal Beamwidth (°):	48
20dB 水平($\varphi=0^\circ$)波束宽度 Horizontal Beamwidth (°):	82
3dB 垂直($\varphi=90^\circ$)波束宽度 Vertical Beamwidth (°):	48
20dB 垂直($\varphi=90^\circ$)波束宽度 Vertical Beamwidth (°):	82
水平($\varphi=0^\circ$)旁瓣抑制 Horizontal Sidelobe (dB):	20 (典型值 Typ.)
垂直($\varphi=90^\circ$)旁瓣抑制 Vertical Sidelobe (dB):	20 (典型值 Typ.)
电调下倾角度 Electrical Downtilt (°):	0 Fixed
前后比 Front to Back Ratio at $180\pm30^\circ$ (dB):	30 (典型值 Typ.)
轴向交叉极化比 CPR at Boresight(dB):	20
端口隔离度 Isolation Port to Port (dB):	30
三阶互调 Intermodulation IM3 (dBm):	<-107 (2×43 dBm)
端口最大输入功率 Maximum Input Power (W):	100
输入阻抗 Impedance (ohm):	50
雷电保护 Lightning Protection:	直流接地 DC Grounded
接头类型 Connector Type:	2×7/16 DIN 母头 Female

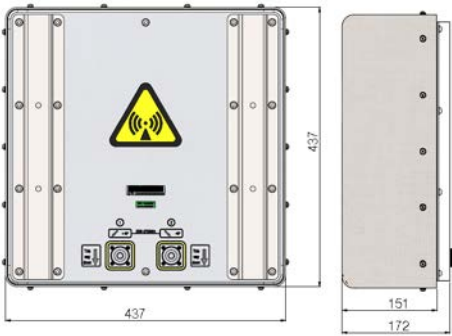
BASTA 电性能参数 Electrical Specifications

频率 Frequency Range (MHz) :	2300-2700
所有倾角增益均值 Average Gain by all Beam Tilts, (dBi) :	11.0
增益容差 Gain by all Beam Tilts Tolerance (dB):	±0.7
水平波宽容差 Horizontal Beamwidth, Tolerance(°):	±4.0
垂直波宽容差 Vertical Beamwidth, Tolerance(°) :	±4.5
垂直旁瓣抑制 USLS Beampeak to 20° above beampeak (dB):	22
总功率前后比 Front to Back at $180\pm30^\circ$, Total power (dB) :	28
主波束方向交叉极化比 CPR at Boresight (dB) :	20

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机械性能 Mechanical Data

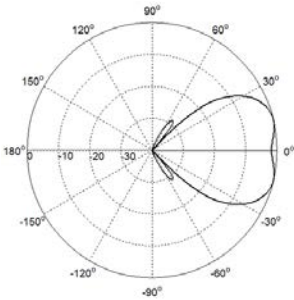
天线尺寸 Antenna Dimensions (mm):	437×437×151
包装尺寸 Packing Dimensions (mm):	604×506×223
天线净重 Antenna Net Weight (kg):	10.0
天线毛重 Antenna Gross Weight (kg):	15.0
天线罩材料 Radome Material:	玻璃钢 Fiberglass, UV Resistant
抱杆直径 Pipe OD (mm):	70-114
支架类型 Mounting Kits (Included):	BA.K.04.00009, 固定下倾角度 Fixed Down Tilt



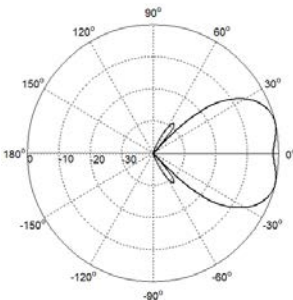
环境性能 Environmental Ratings

工作湿度 Humidity:	95%RH@+30℃
工作温度 Temperature (℃):	-40~+70
风荷载 Wind Load @150 km/h (N):	正面 Frontal/侧面 Lateral/背面 Rearside: 335/61/363
最大风速 Max.Wind velocity(km/h)	200

典型方向图 Typical Patterns



水平方向图
Azimuth



垂直方向图
Elevation

支架安装及下倾角设置

Bracket Installation and Mechanical Tilt Setting

先将安装支架组装到天线上，再与抱杆固定。安装前请注意位于天线背面的标签标识，如图 1 所示，请确保该标签所指的侧面朝下，即天线罩有排水孔的一侧朝下，否则天线内部可能有积水，影响产品正常使用。

Using the bracket to fix the antenna on the pole. Before installation, pay attention to the label on the antenna back in Figure 1. Make sure the pointing side is down, and it means the antenna radome side with holes is facing down. Otherwise, water may leaks into the antenna, and the antenna performance will be worse.

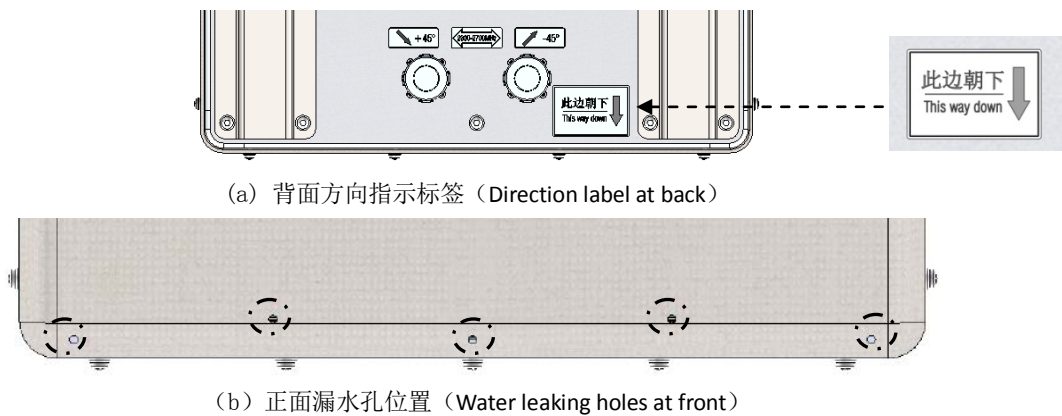


图 1 天线朝向标签标识图 Figure 1 Antenna Direction Label and Leaking Holes

抱杆的直径必须在 70 mm 至 114 mm 之间，如图 2 所示。安装紧固件必需使用扭力巴拿，扭力如图 2 所示。

The diameter of the pole must be between 70 mm to 114 mm, see in Figure 2 below. The size of the torque is shown in Figure 2 to tighten fastener with the torque spanner.

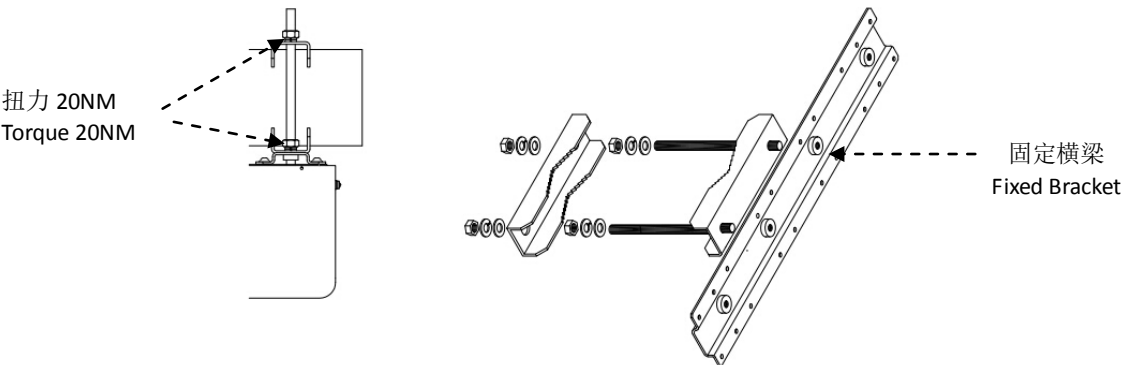


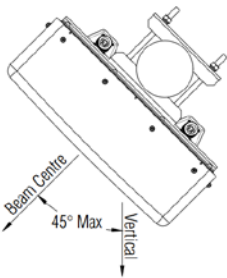
图 2 支架安装力矩和支架组件 Figure 2 Bracket Assembly and Torque

天线平行于抱杆，绕圆抱杆旋转天线可以调整天线的波束中心指向。如果波束指向与垂直面夹角超过 45°，会增加雨水渗入的可能性。因此天线旋转的角度最大不能超过 45°，如图 3 所示。

Rotating antenna around the pole to adjust the antenna beam direction. Pay attention that the angle should not exceed 45°, see in Figure 3 below.

图 3 角度调节限制

Figure 3 Mechanical Tilt Range



操作说明—输入线缆连接

Operating Instructions—Input Cable Connections Notice



此款天线为固定倾角天线。为了确保不损坏天线，请确保使用正确的工具，扭紧馈线连接头可以使用普通的扭力扳手。输入接头须进行防水处理以防止雨水渗入电缆。



使用前请了解产品背面的结构，如图 4 所示。

This is an electrical tilt fixed antenna. Make sure to tighten feeder cable connector with the torque wrench correctly. The input connector should be taken with good waterproof measure to prevent the rain water into the antenna.

Please understand the structure of the antenna back board in Figure 4 below before using the antenna.

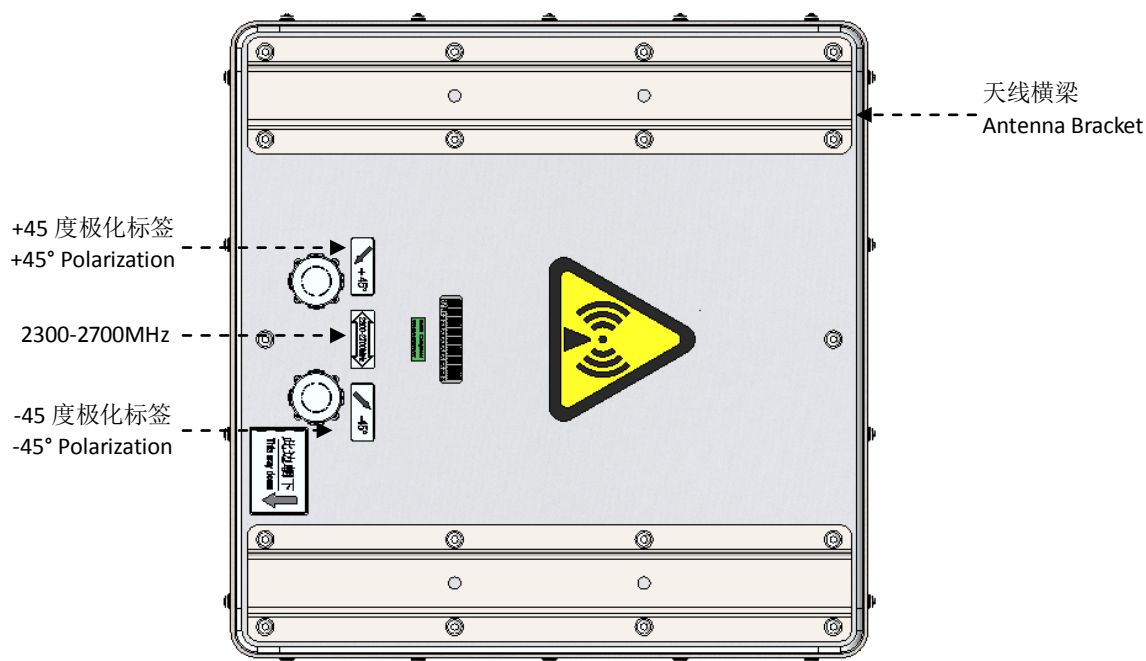


图 4 背板结构

Figure 4 The back of the antenna

注：文中标识的含义。

Note: The symbol meaning of the bracket installation manual.



：按照步骤安装，否则可能导致产品损坏。Follow the steps to install, or it may result in damage to the antenna.



：安装指引及产品指引。Installation guidelines and product guidelines.

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