

Parameter	Value	Units
Conducted Power	3,000	W
Antenna Gain	2.50	dBi
Linear Gain	1.78	
Peak EIRP	5,334.84	W
Frequency — lower bound	228.000	MHz
Duty Cycle (not applied)	0.30	worst case analysis
Peak ERP (reference)	3,251.78	W

APPLICABLE LIMITS

Criterion	mW/cm ²	W/m ²	Authority
FCC Occupational / Controlled	1.0000	10.0000	47 CFR § 1.1310, Table 1(A) — 30–300 MHz (fixed)
FCC General Population / Uncontrolled	0.2000	2.0000	47 CFR § 1.1310, Table 1(B) — 30–300 MHz (fixed)
HERP [Personnel (100–300 MHz)]	0.2000	2.0000	DoDI 6055.11, Table E6.A2.T1

SAFE DISTANCES | $R = \sqrt{EIRP / (4\pi \times S)}$ [OET Bulletin 65]

Criterion	Limit (W/m ²)	Distance (m)
FCC Occupational / Controlled	10.0000	6.5156
FCC General Population / Uncontrolled	2.0000	14.5694
HERP (DoDI 6055.11)	2.0000	14.5694