

	RF Exposure ID LRU500i-FCC	1 / 1
	FCC ID: PJM LRU500I IC: 6633A-LRU500I Date : 2019-03-22	

RF Exposure Compliance Requirement ID LRU500i-BD-FCC / ID LRU500i-PoE-FCC / ID MAX.U500i-FCC

The maximum permissible exposure (MPE) for **general population** is defined as 0.6mW/cm^2 ($f/1500$, FCC OET Bulletin 65, Supplement B). The distance from the transmitting antenna where the exposure level reaches the maximum permitted level is calculated using equation (1):

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \quad (1)$$

where: S = Power density 0.6mW/cm^2
 $EIRP$ = Power output of an isotropic antenna 4W
 R = Distance to the centre of the radiation of the antenna

Solving equation (1) the minimum distance at which a person must keep away in a uncontrolled exposure is

$$R = 23\text{cm}$$

The maximum permissible exposure (MPE) for **controlled exposure** is defined as 3mW/cm^2 ($f/300$, FCC OET Bulletin 65, Supplement B). Solving equation (1) where $S = 3\text{mW/cm}^2$ the minimum distance at which a person must keep away in a uncontrolled exposure is

$$R = 10,3\text{cm}$$