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	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  $0.6\text{mW/cm}^2$  ( $f/1500$ , 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  $0.6\text{mW/cm}^2$

$EIRP$  = Power output of an isotropic antenna  $4\text{W}$

$R$  = 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  $3\text{mW/cm}^2$  ( $f/300$ , 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

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