

# What is the maximum power of the base station in W



## Overview

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(1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below. For single sideband operations (J3E emission), the maximum transmitter peak envelope power is 1000 watts. Stations. Output power,  $P_{out}$ , of the base station is the mean power of one carrier delivered to a load with resistance equal to the nominal load impedance of the transmitter. Most antennas are designed to avoid radiating along the vertical axis, since there are unlikely to be any. 95. This is for the "main" (a/k/a repeater input/output) channels.

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### 6.2 Base station output power - TechSpec

Maximum output power ( $P_{max,c}$ ) of the base station is the mean power level per carrier measured at the antenna connector during the transmitter ON period in a specified reference condition.

### eCFR :: 47 CFR Part 27 Subpart C -

(1) Fixed and base stations transmitting a signal in the 757-758 and 775-776 MHz bands must not exceed an effective radiated power (ERP) of 1000 watts and an antenna height of 305 m height ...



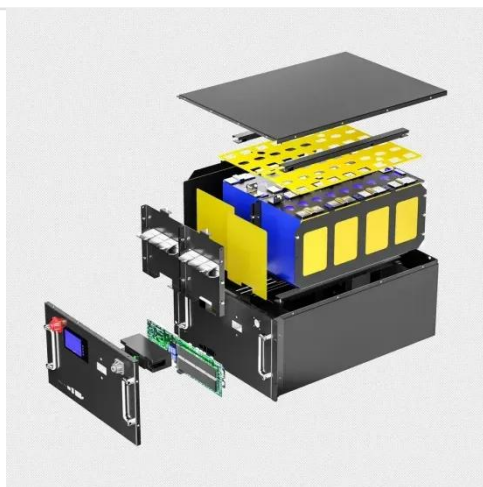
### About FM Station Powers

Roughly speaking, a class A station is allowed up to 6 kW at 300 m; a class B station is allowed up to 50 kW at 300 m, and a class C station is allowed up to 100 kW at effectively unlimited height.



### 47 CFR § 90.205

The maximum effective radiated power (ERP) for stations operating on fixed frequencies is 300 watts. Stations operating on mobile-only frequencies are limited to one watt transmitter output power.



### Maximum Wattage?

95.1767 (a) (1) Transmitter power of mobile, repeater, and base stations must not exceed 50 watts. This is for the "main" (a/k/a repeater input/output) channels. It seems that the term "fixed ...

### eCFR :: 47 CFR 90.205 -

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<b>Product Model</b>	HJ-ESS-215A(100KW/215KWh) HJ-ESS-115A(50KW 115KWh)
<b>Dimensions</b>	1600*1280*2200mm 1600*1200*2000mm
<b>Rated Battery Capacity</b>	215KWH/115KWH
<b>Battery Cooling Method</b>	Air Cooled/Liquid Cooled



### eCFR :: 47 CFR 24.232 -

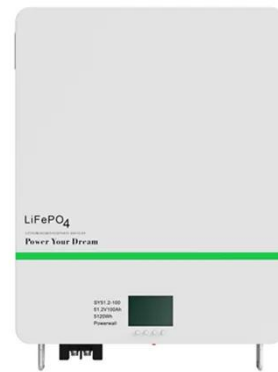
§ 24.232 Power and antenna height limits. (a) (1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent



isotropically radiated power (EIRP) with an antenna height ...

## GMRS Power Limits: Fixed Versus Base Stations

(1) The transmitter output power of mobile, repeater and base stations must not exceed 50 Watts. (2) The transmitter output power of fixed stations must not exceed 15 Watts. I am baffled by ...



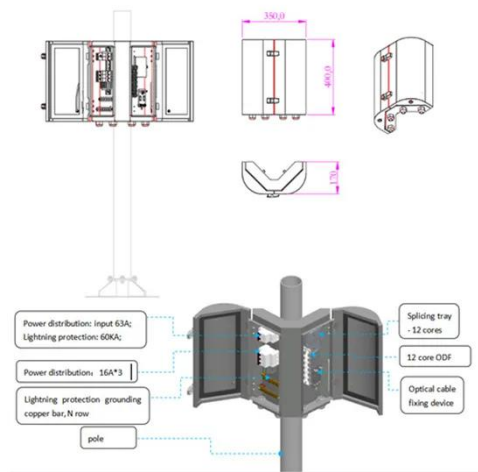
## Power Base Station

Maximum base station power is limited to 24 dBm output power for Local Area base stations and to 20 dBm for Home base stations, counting the power over all antennas (up to four).

## 47 CFR § 27.50

If a non-uniform emission were substituted at the station, station power would still be limited to a maximum of 33.3 watts EIRP within any 100 kHz

segment of the 6 MHz channel,  
irrespective of the ...



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