



# Base station adjustable power supply modification





## Overview

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This article aims to shed light on the importance of correctly managing your ham radio power supply voltage, the typical modifications you can carry out, and the benefits you stand to gain by ensuring that your radio operates at peak performance.

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And hams are always in need of one more 12 volt power supply to run station equipment or accessories. At the intersection of those two truths is the Motorola HPA3000A power supply. It's a rugged, brute-force linear regulated power supply designed to power Motorola's Spectra base stations. It's.

Voltage modifications may be necessary for several reasons: Compatibility: Sometimes, you may have a radio that is designed for a specific voltage, and your existing power supply does not meet those requirements. Performance Improvement: Increased voltage can lead to improved transmitter.

A 13,8v/5Amp 78H05 based power supply for portable use. In this example used to power up a Yaesu FT-817 PC power supply conversion for ham radio use. Slide show overview showing how convert PC Power supplies to ham radio use presented at the August 2007 FSARC meeting. for those times when you have.

Most power supplies are marked and advertised by the peak amperage. They are not meant to run at the peak all of the time. Most 30 amp power supplies are only rated between 22 and 25 amps continuous. IF you are only connecting one radio (up to 50 watts) to the power supply then any 30 amp supply.

My first attempt to build a power supply capable of 10A @ 30V for my 2x100W Class D-Amp was not successful, because I only reached 10A@ 24V. My next idea was, to modify an ATX-Computer-Power-Supply from 12V to 18V and connect a unmodified (original) ATX-Power-Supply with a modified 18V to reach 30V.

This text is a modification guide for a power supply. To avoid damaging the original



casing, an externally mounted method is used to connect the voltmeter and ammeter, which can be adjusted from 0-55V and 0-60A. The power supply model is as follows: Emerson R48-2900U Snowflake Iron Shell Dual.



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### Power converter for base station

My 100 watt base ham radios requires 23 amps at its greatest draw. Also, the quality of a power supply is important. A power supply that ...



### Astron SS-12SM/GTX/M1225

Astron SS-12SM/GTX/M1225 - Custom Base Station Switching Power Supply. Compatible with Motorola GTX Series, M1225 and CM Series ...

### Enhancing Your Ham Radio Setup: The Ultimate Guide to Power ...

Implementing power supply voltage modifications can be complex, but the benefits often outweigh the risks. Whether you're looking for improved communication range, better ...



### Optimizing Your Ham Radio Power Supply: Voltage Modifications ...

An inadequately powered radio can lead to poor performance, distortion, and even damage to your equipment. Today, we'll delve into the intricacies of ham radio power supply voltage ...



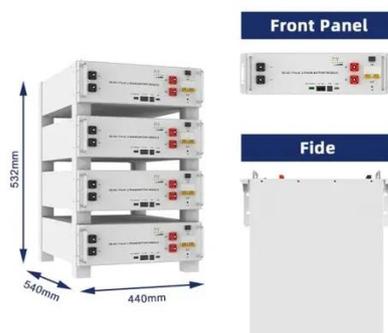
### [Motorola HPN3000A power supply modification](#)

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### [ATX Power Supply 18V and 30V Modification - ...](#)

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### **Power Supply**

PC power supply conversion for ham radio use. Slide show overview showing how convert PC Power supplies to ham radio use presented at the August 2007 FSARC meeting.

### [DIY: Adjustable Power Supply Modification](#)



Step-by-step guide to modify Emerson R48-2900U power supply for 0-55V/0-60A output with external voltmeter, ammeter, and precise voltage/current adjustment.



### **The Ultimate Guide to Modifying Your Ham Radio Power Supply ...**

This article aims to shed light on the importance of correctly managing your ham radio power supply voltage, the typical modifications you can carry out, and the benefits you stand to gain ...

### [ATX Power Supply 18V and 30V Modification - Simon Wyss](#)

My next idea was, to modify an ATX-Computer-Power-Supply from 12V to 18V and connect a unmodified (original) ATX-Power-Supply with a modified 18V to reach 30V and 10A.



### **Enhancing Your Ham Radio Setup: The Ultimate Guide to Power Supply**

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### [Motorola HPN3000A power supply modification](#)

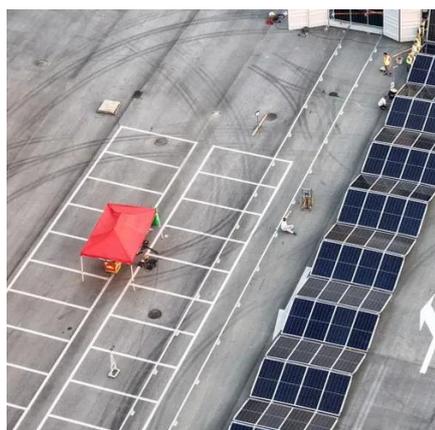


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**TAX FREE**

**Product Model**  
HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
1600\*1280\*2200mm  
1600\*1200\*2000mm

**Rated Battery Capacity**  
215KWH/115KWH

**Battery Cooling Method**  
Air Cooled/Liquid Cooled

### Optimizing Your Ham Radio Server: A Comprehensive Guide to ...

A common consideration for enhancing your ham radio server is implementing voltage modifications to your power supply. Today, we'll explore the intricacies of power supply voltage ...

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