



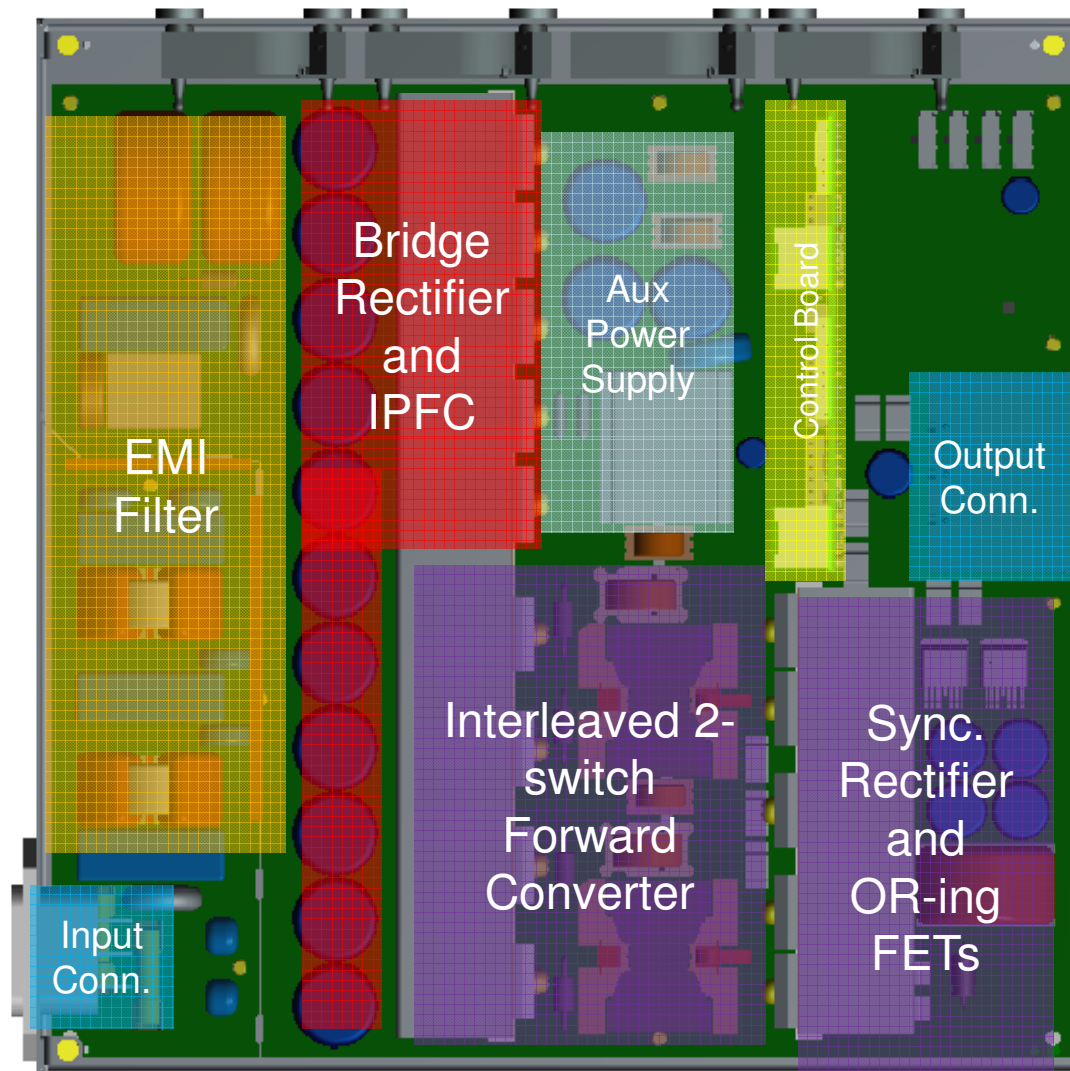
**MICROCHIP**

# **720W Platinum Rated AC/DC Reference Design**

**Demo Instructions**



# Board Overview





# What's Included?

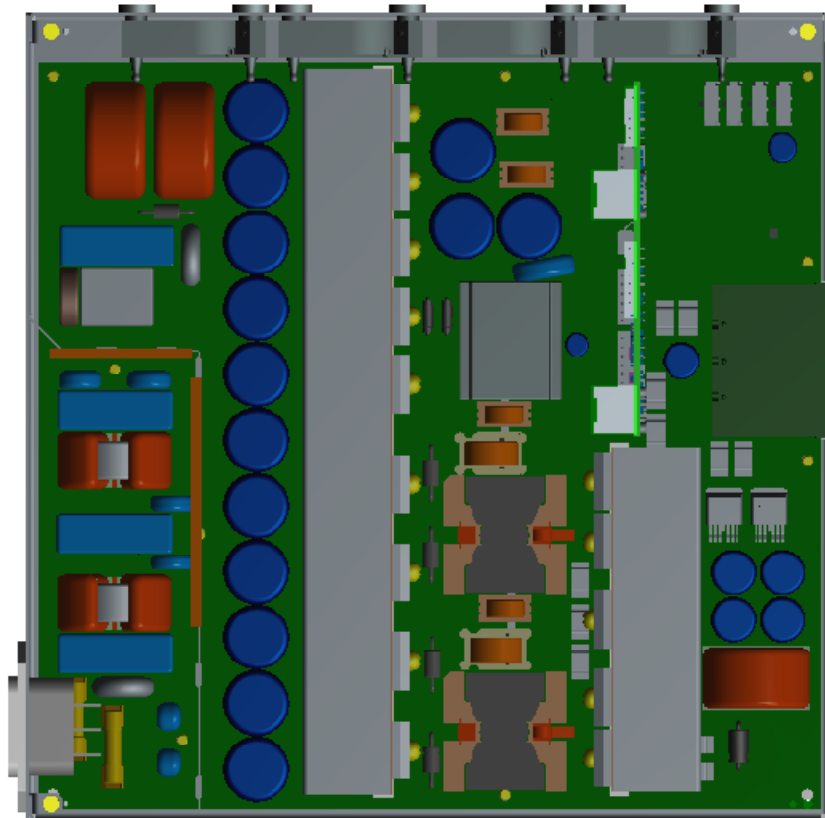
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- **720W AC/DC Power Supply**
- **AC Power Cable**
- **Load Cable Adapter**



# Setup and Connections

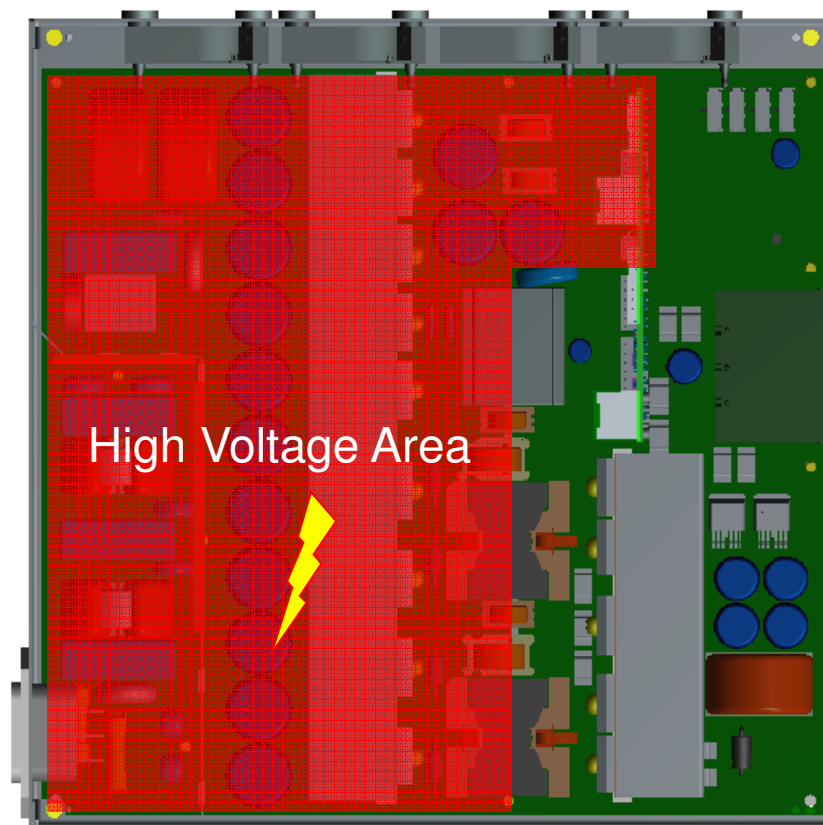
- **Visually Inspect the System to ensure no damage has been caused during shipping.**





# Setup and Connections

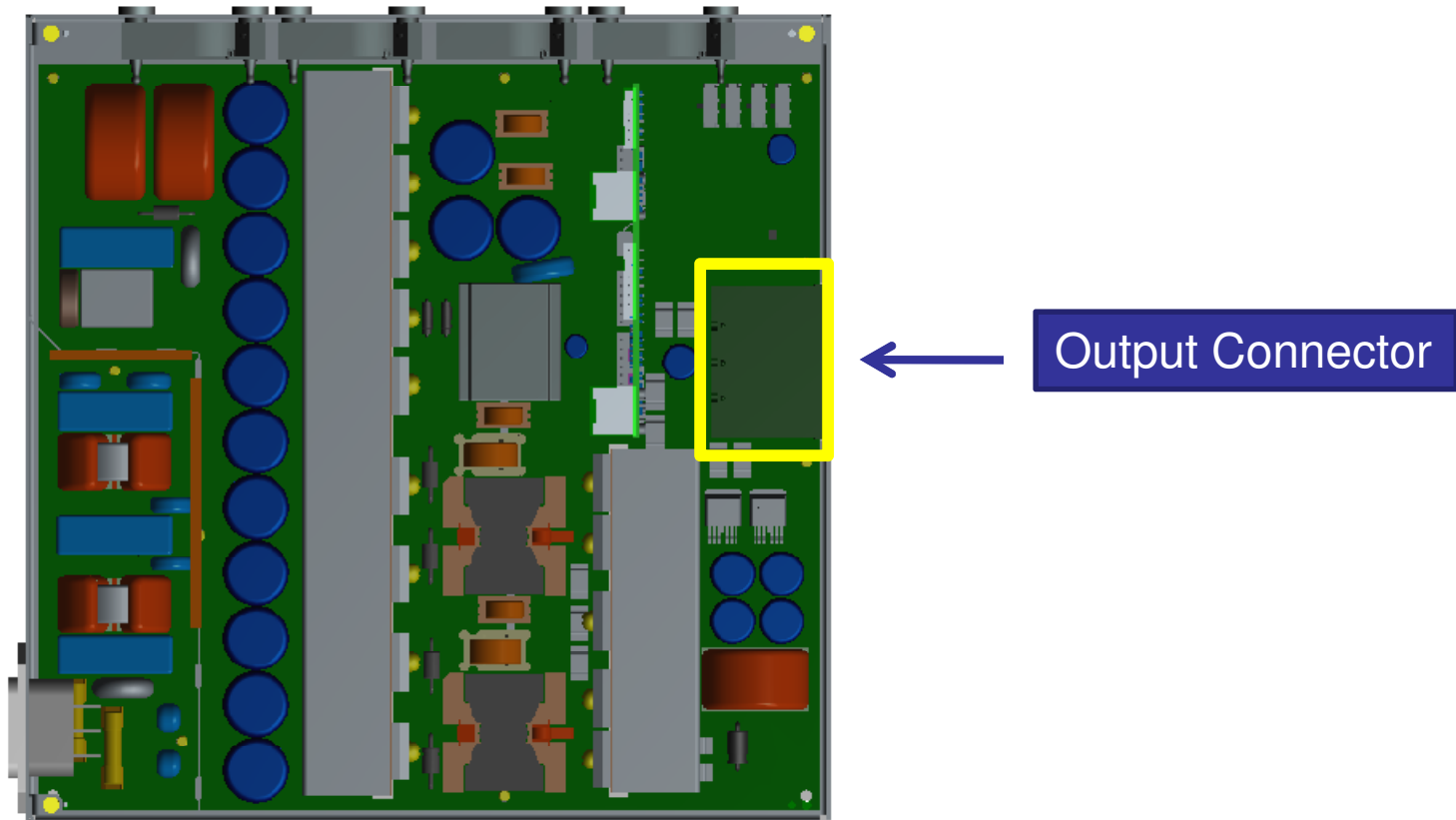
- The highlighted section may carry high voltage so be careful when lid is open.





# Setup and Connections

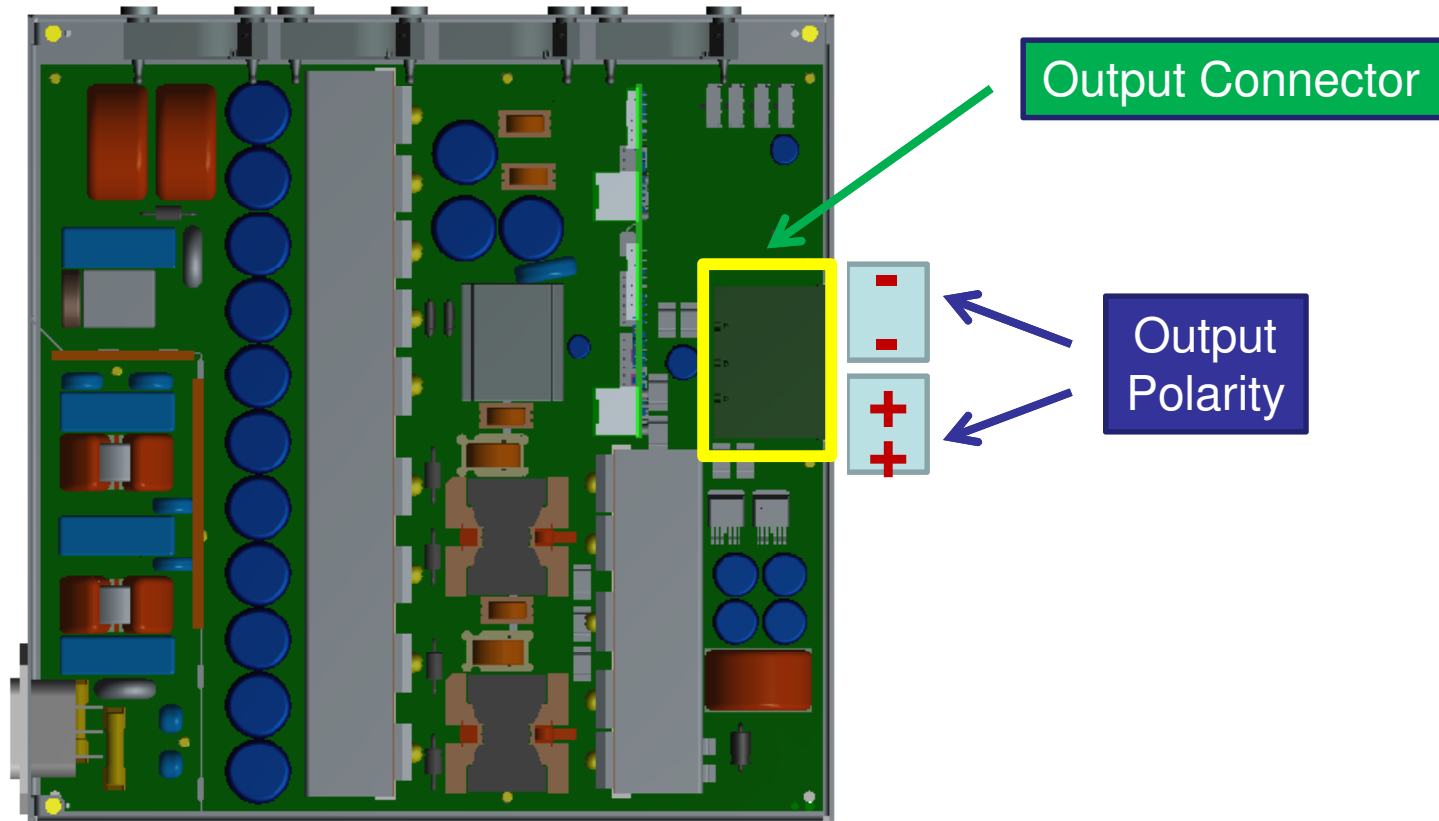
- The output connector is in the highlighted location shown below





# Setup and Connections

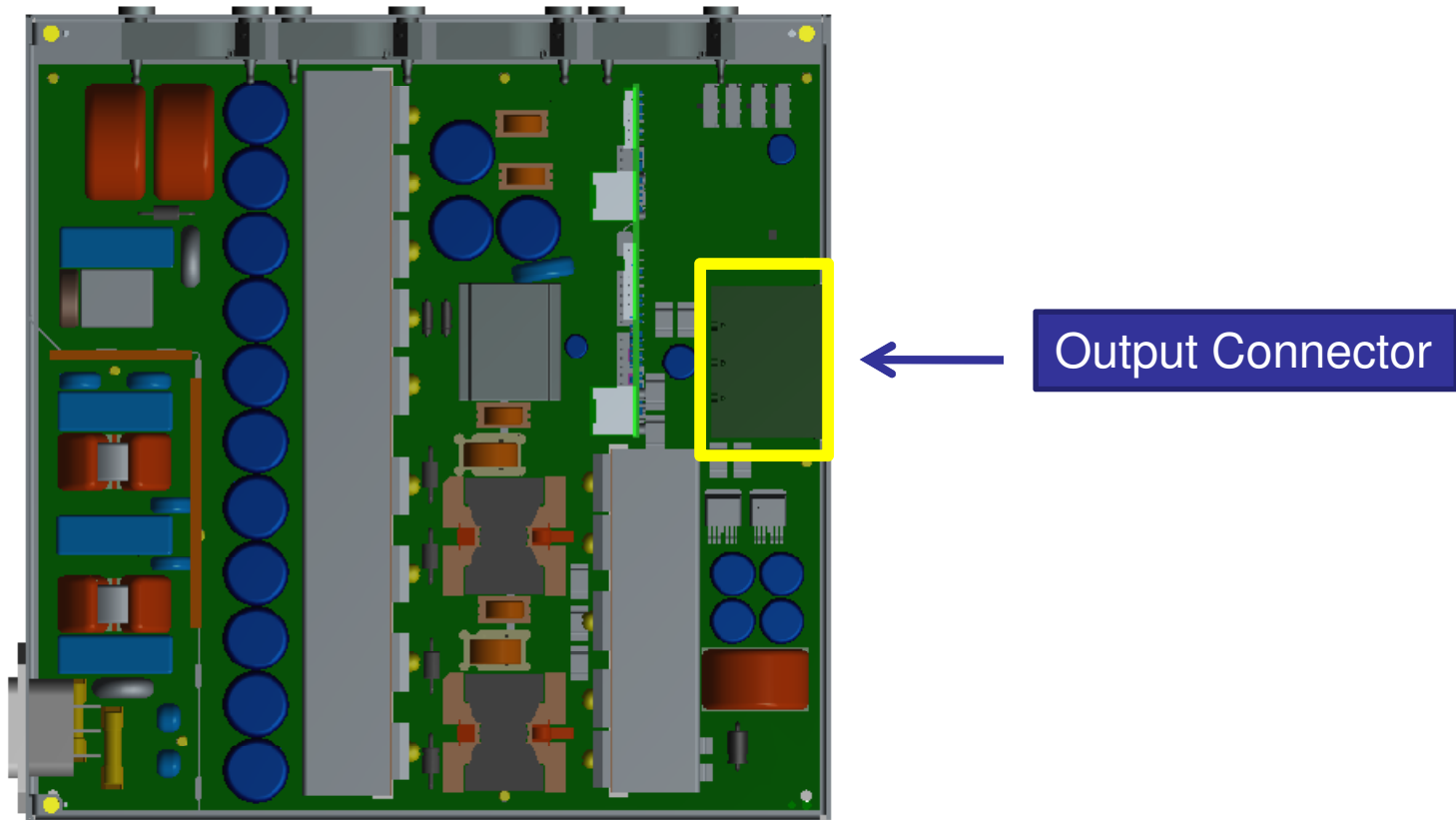
- The output adapter has four screw terminals. Connect the Electronic load taking care of polarities as shown in the picture as shown in the picture





# Setup and Connections

- Before powering on for the first time, ensure that the Electronic Load is ON and configured for 0A current.







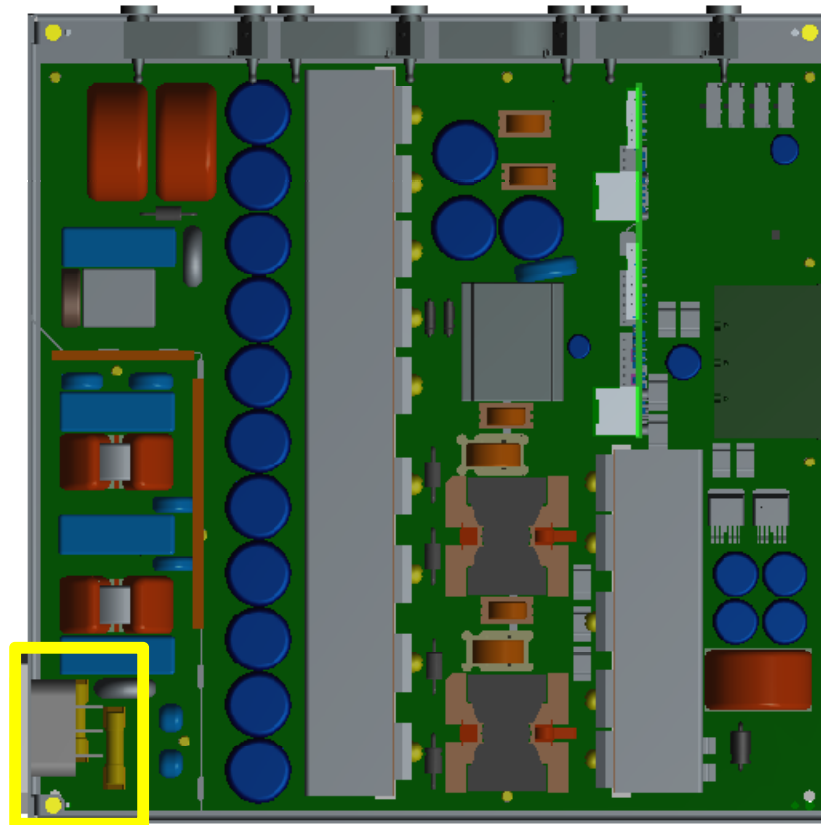
# Setup and Connections

- Before connecting the AC Power cable, ensure that the AC source is turned OFF
- Make sure that the AC source has an Earth connection to the Earth pin of the AC input connector

Earth Pin



AC Input Connector

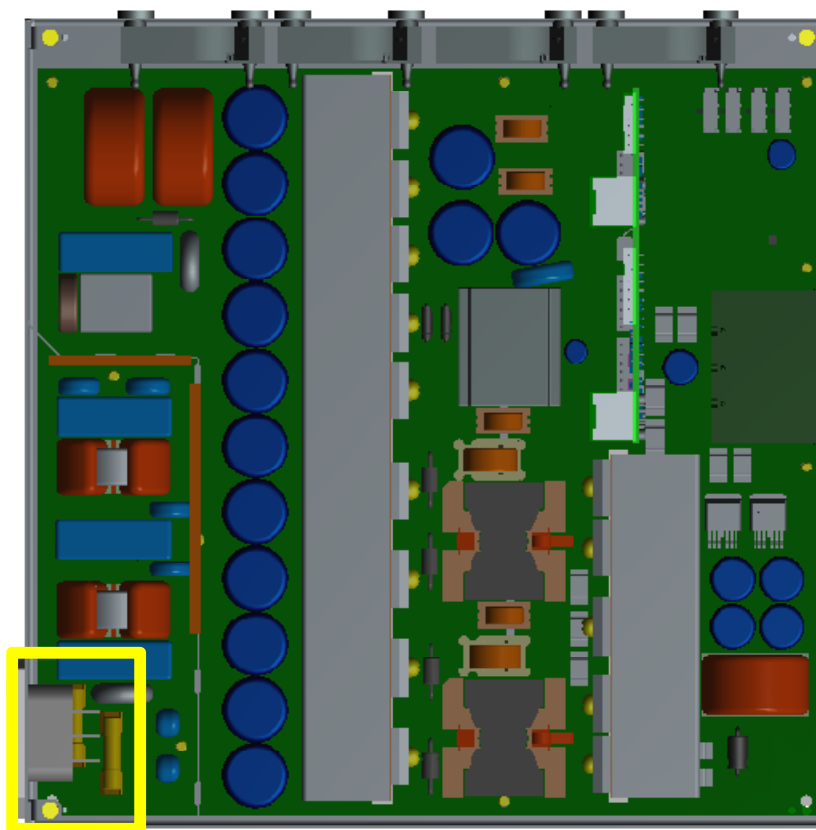




# Setup and Connections

- If desired, connect the input cable to a power quality meter to measure Power factor and THD. Follow the recommended connections for the power meter.
- Connect the AC Power Cable to the AC Input Connector and turn ON the AC source

AC Input Connector





# Precautions

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- **Do not operate the system with the Lid open**
- **Always operate the AC/DC Power Supply within the published specifications**
- **Contact Microchip for any questions or concerns**



# Measurements and Tests

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- **Use the power meter to measure input Power Factor and THD**
- **To record efficiency measurements, follow the guidelines provided in Platinum AC\_DC Efficiency Measurement Guidelines**
- **For dynamic load response ensure that the slew rate is  $\leq 2A/\mu s$**



# Additional Support

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- [www.microchip.com/smpps](http://www.microchip.com/smpps)
- <http://support.microchip.com>
- **Contact your local Microchip FAE**