

BEAR BONES
PLUG-IN POWER SUPPLY CARDDESCRIPTION

The ICM-PS-XX power supply card makes it easy for you to power up your Bear Bones system with AC voltages. This card also provides the battery back-up capability you may require. Please furnish the battery of your choice after reviewing this data sheet.

SPECIFICATIONS

ICM-PS-10 24VAC, 120VAC or 240VAC power source, for battery back up of the CPU ram only.

ICM-PS-11 24VAC, 120VAC or 240VAC power source, for battery back up of the CPU ram and time base.

The charging current for both PS-10 and 11 is 17MADC maximum. For other rates call the home office. Battery operated time base accuracy to 10 seconds per week. The AC power source is determined when you order your Bear Bones and is dependent on the transformer furnished.

APPLICATION

The power supply card will support and enhance the capabilities of your on-board Bear Bones power supply. This card will not replace your Bear Bones power supply.

OPERATION

This plug-in power supply converts your 120VAC line power to the logic voltage required by the Bear Bones. This card will, with your battery, support the CPU ram and the time base depending on the model number.

OPTIONS

There are no standard options. Please call the home office with any special requirements.

THE BATTERY

The battery that you furnish and install is to be rechargeable rated at 12VDC. A gelled electrolyte is preferred over a liquid electrolyte.

You will also need to select a battery of an ampere-hour rating that will satisfy the total system load for the period of time you select. The system load can be determined by totalizing the drain that each card places on the power supply. Each Bear Bones product lists this information in the specification section of its data sheet. A battery rated at 1.5 ampere hours will sustain the Bear Bones for 12 hours provided you follow the programming guidelines.

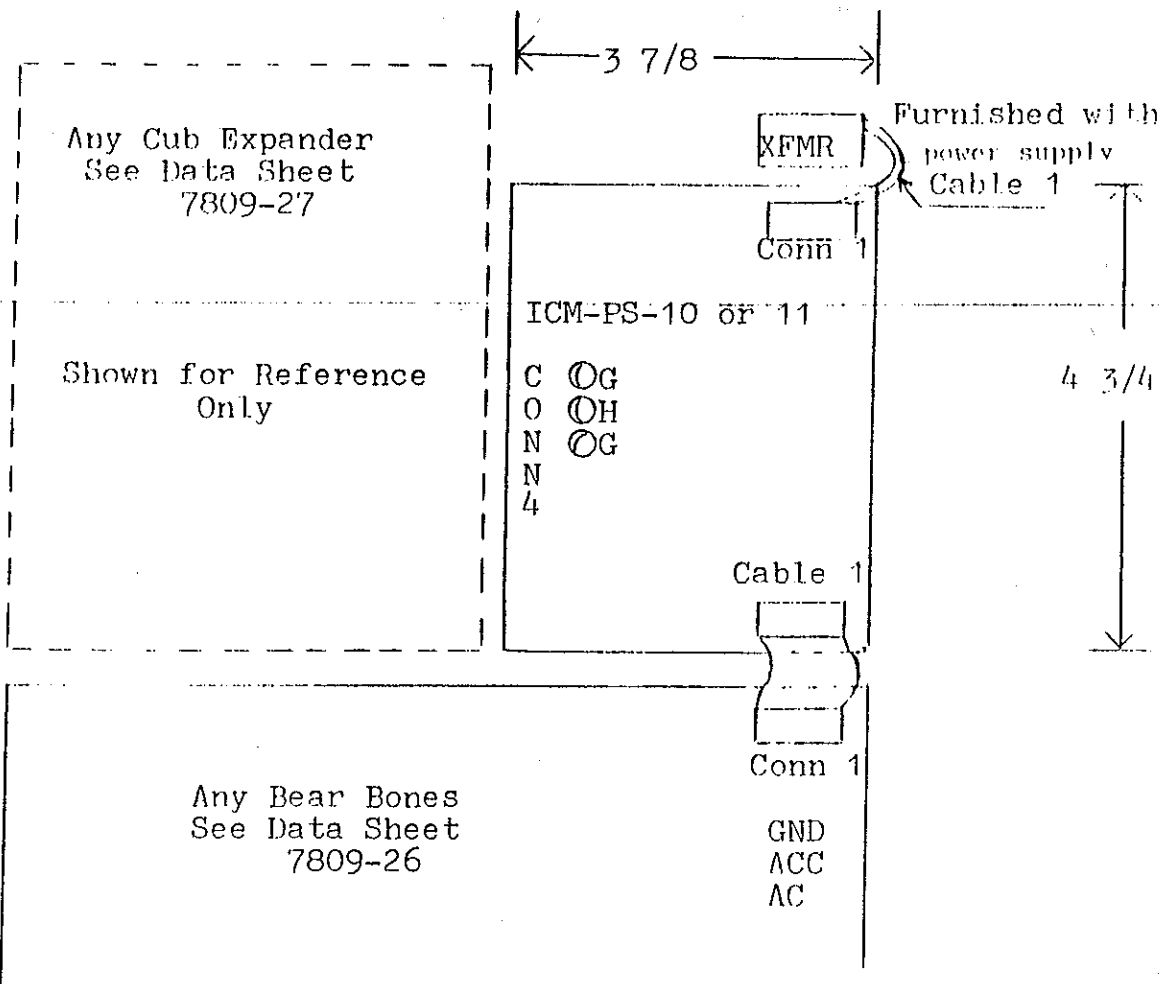


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You will also need to enter a program that will de-energize all the real world outputs you might have in your program. This is a necessary bit of software that will minimize the current drain on the battery should the power fail. A good approach is to connect line power to an input and when that input goes low turn off all the outputs.

FIGURE 1



NOTE: The terminals at connector 4 are for the battery. Connect + to H and - to G.

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DESCRIPTION

The ICM-PS-XX power supply card makes it easy for you to power up your Bear Bones system with DC voltages. You need only to furnish a DC power supply or battery consistent with the below specifications.

SPECIFICATIONS

ICM-PS-12 24VDC power source at 1.5 AMPS minimum with < 1% ripple.

ICM-PS-13 12VDC power source at 1.5 AMPS minimum with < 1% ripple.

APPLICATION


This power supply card will support and enhance the capabilities of your on-board Bear Bones power supply. This card will not replace your Bear Bones power supply. Refer to Figure 1 for connections.

OPERATION

This plug-in power supply converts your 12 or 24VDC line power to the logic voltage required by the Bear Bones.

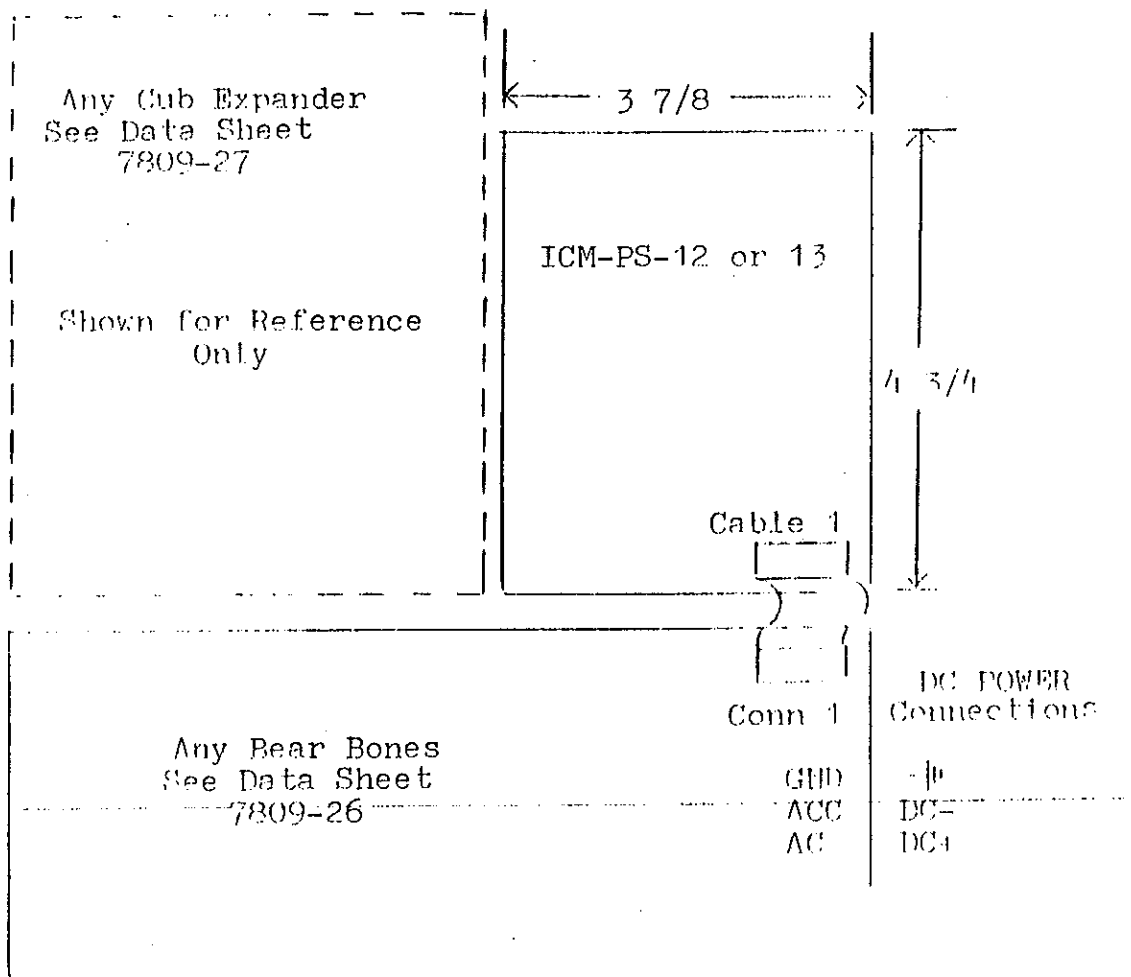
OPTIONS

There are no standard options. Please call the home office with any special requirements.

	
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FIGURE 1



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