Cumberland 24 Volt AC Power Supply

for Zone Infrared Brooders

1. Specifications:

| Input: 120/240VAC 50/60 Hz | Total Output: 10.0 A @ 24 VAC/per 4 Stages |

2. Purpose

The PS-24VAC is a Power Supply intended to operate 24VAC SPI Zone Brooders & 24VAC HSI SG Brooders. Since the PS-24 is only a power supply it must be used with a separate control device such as a thermostat or Cumberland electronic controller. The PS-24VAC is capable of supplying 10 amperes of total current which can operate up to 30 SPI Zone Brooders.

⚠️ Warning!

Before connecting power to the machine, be sure to check the correct wiring for either 120VAC or 240VAC!

⚠️ Warning!

- Installation by a qualified electrician required.
- Wiring and connections must comply with all national and local electrical codes.
- Ensure all power is OFF before connecting power supply and power cable.
- When this controller is used in a life support heating and ventilation system where failure could result in loss or injury, the user should provide adequate back-up, or accept the risk of such loss or injury!

FAILURES TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH.
3. Directions

1. Unpack system, and check that all components are present.
2. Hang the PS-24VAC with four screws and the plastic mounting brackets included.
3. Make sure all power supplies are disconnected before breaking any wires, or reaching into the enclosure.
4. Open the PS-24 and find all connections. Refer to Wiring Diagrams.
5. Connect wires from stage terminals to the brooders. Refer to Wiring Diagrams.
6. Connect the wires for either 120V or 240V power to the terminals specified in the wiring diagram.

4. SPI Zone Brooder Wiring to Control Device
5. HSI Zone Brooder Wiring to Control Device

6. 24 VAC Power Supply Wiring

Connect Neutral for either 120V or 240V operation.
7. Limited Warranty - Protein Products

The GSI Group, LLC. ("GSI") warrants products which it manufactures, to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months from the date of purchase (or, if shipped by vessel, 14 months from the date of arrival at the port of discharge). If, in GSI’s sole judgment, a product is found to have a defect in materials and/or workmanship, GSI will, at its own option and expense, repair or replace the product or refund the purchase price. This Limited Warranty is subject to extension and other terms as set forth below.

Warranty Enhancements: The warranty period for the following products is enhanced as shown below and is in lieu of (and not in addition to) the above stated warranty period.

<table>
<thead>
<tr>
<th>Product</th>
<th>Warranty Period</th>
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<tbody>
<tr>
<td>AP® Fans</td>
<td>Performer Series Direct Drive Fan Motor</td>
</tr>
<tr>
<td>AP® and Cumberland® Flex-Flo/Pan Feeding System Motors</td>
<td>2 Years</td>
</tr>
<tr>
<td>Electronic Controls All Protein controls manufactured by GSI</td>
<td>24 Months from date code on part</td>
</tr>
<tr>
<td>Cumberland® Feeding and Watering Systems</td>
<td>Feeder System Pan Assemblies</td>
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<tr>
<td></td>
<td>Feed Tubes (1.75” and 2.00”)</td>
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<td></td>
<td>Centerless Augers</td>
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<td>Watering Nipples</td>
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</tbody>
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* Warranty prorated from material list price:
  0 to 3 years - no material cost to end user
  3 to 5 years - end user pays 25%
  5 to 7 years - end user pays 50%
  7 to 10 years - end user pays 75%

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  0 to 3 years - no material cost to end user
  3 to 5 years - end user pays 75%

Conditions and Limitations:

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH HEREIN; SPECIFICALLY, GSI DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) ANY PRODUCT MANUFACTURED OR SOLD BY GSI. OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

The sole and exclusive remedy for any claimant is set forth in this Limited Warranty and shall not exceed the amount paid for the product purchased. This Warranty only covers the value of the warranted parts and equipment, and does not cover labor charges for removing or installing defective parts, shipping charges with respect to such parts, any applicable sales or other taxes, or any other charges or expenses not specified in this Warranty. GSI shall not be liable for any other direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. Expenses incurred by or on behalf of a claimant without prior written authorization from the GSI warranty department shall not be reimbursed. This warranty is not transferable and applies only to the original end user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor. Prior to installation, the end user bears all responsibility to comply with federal, state and local codes which apply to the location and installation of the products.

This Limited Warranty extends solely to products sold by GSI and does not cover any parts, components or materials used in conjunction with the product, that are not sold by GSI. GSI assumes no responsibility for claims resulting from construction defects, unauthorized modifications, corrosion or other cosmetic issues caused by storage, application or environmental conditions. Modifications to products not specifically delineated in the manual accompanying the product at initial sale will void all warranties. This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained.

Service Parts:

GSI warrants, subject to all other conditions described in this Warranty, Service Parts which it manufactures for a period of 12 months from the date of purchase, unless specified in Enhancements above. Parts not manufactured by GSI will carry the Manufacturer’s Warranty.

(Protein Limited Warranty, REV01, 08 November 2018)