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QUESTIONS AND ANSWERS

- A1. How do I choose a circuit breaker or wire size for connecting the AC input power to my DHP 2 kW or 3 kW power supply?

For DHP 2 kW & 3 kW models a general recommendation of 30 Amp circuit breaker or fuse is suggested. If you are unfamiliar with electrical high power AC connections, local or national electrical codes, contact your Facilities Manager or Electrician in your area for assistance.

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- A2. Can I have my DHP 2 kW or 3 kW reconfigured to use 3-phase AC input power?

No. 3-phase AC input requires the "M3" Option which can only be configured at the time of order. See Operation manual electrical characteristics and installation section for more details.

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- A3. Can I change the AC input power voltage required for my DHP 2 kW or 3 kW?

The only change to the input AC requirement that can be changed on the DHP 2 kW & 3 kW is to add or remove the 3-phase option. This must be done at the factory. The input AC range cannot be changed. See Operation manual for more details.

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- A4. What is the connection orientation or phase rotation of my input AC line phases and where do I connect neutral?

DHP 2 kW & 3 kW power supplies do not require a specific phase rotation for input AC lines. Neutral is not required or used and should never be connected. See Operation manual electrical characteristics and installation section for more details.

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- A5. What is the slew rate of my DHP 2 kW or 3 kW?

DHP 2 kW & 3 kW model power supplies have a slew rate of ~ 250 ms typical. Slew rate is defined as the time it takes the output to change from 5-95% of full scale.

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- A6. When I have the DHP 2 kW or 3 kW front panel switch off, the top of the unit gets warm. Is this a problem?

No, this is NOT an indication of a problem. The front panel switch on DHP 2 kW & 3 kW power supplies is a soft enable/disable shutdown and not a circuit breaker. If the input power to the DHP 2 kW & 3 kW is not removed by an external contactor or circuit breaker portions of the internal circuitry remain live. The heat is generated by this live power feeding the soft-start circuit in the DHP 2 kW & 3 kW that was designed to limit the inrush current at power up. Removing external power from the DHP 2 kW & 3 kW supply will eliminate this heating effect.

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- A7. Can I parallel DHPs?

No, DHP design is not provisioned for parallel operation. If higher current is needed in your application, contact Ametek Programmable Power Sales for suggestions.

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- A8. When using the RS232 or GPIB option does my DHP 2 kW or 3 kW send an identification string at start up or connection?

No. DHP 2 kW & 3 kW series power supplies do not send any communications unless it is requested by a query.

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- A9. Can I send a query via RS232 or GPIB option while using front panel local control?

No. DHP 2 kW & 3 kW series power supplies do NOT allow query's to be sent without putting the unit into remote control.

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- A10. Why does the output of my unit shutdown when I remove the J1 mating connector?

The J1 mating connector has several methods to enable and disable the output of the power supply. DHP 2 kW & 3 kW series power supplies ship with J1 pins 5 and 6 jumpered together to enable the output. If this jumper is removed and no other enable method is chosen, or the J1 mating connector is removed all together, the output will be disabled. See Operation manual, Analog Control Connector for more details.

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