

Chameleon™ 100 PDU with Auto-Transformer



Installation and Operation Manual

MNL108

Rev 1.2

**READ THIS MANUAL CAREFULLY
SAVE ALL INSTRUCTIONS**

This manual contains important information that you will need to operate the *Chameleon™* safely and efficiently.
Please read all instructions carefully before installing or operating equipment.

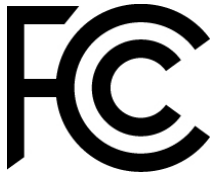
Keep this manual handy for easy reference.



Safety Certification

This device has been safety tested by TUV Rheinland and certified to UL 60950-1.

Supplier's Declaration of Conformity (SDoC)



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Operation of this equipment in a residential area may cause interference, in which case the User will be required to correct the interference at his/her own expense.



Caution

Use only shielded interface cable when connecting to computer or peripheral devices.

The *Chameleon™* is a registered trademark of Power Innovations International, Inc.

This manual may accompany other instructional addendums about additional customizations or systems.

Please contact Power Innovations if additional manuals are needed and have not been received.

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1—Introduction

Congratulations on your purchase! Power Innovations strongly believes in the durability and quality of its products. The company hopes this product will serve you well for a long time.

1.1—Product Overview

The Chameleon™ 100 is a product family of 19-inch rack mounted transformers that provide power distribution and monitoring in a data center environment. They are designed to save space and cost by replacing separate transformer racks and Power Distribution Units (PDUs). They are based on a 100-kVA rated auto transformer that fits in a 6U (10.5 inch) 19-inch rack space. They are particularly useful in 480 VAC data centers that want to maintain their existing input power infrastructure but move to newer 240 VAC servers.

1.1.1—Key Product Features

- Power conversion
- Power Distribution Unit (PDU) replacement customized to customer requirements
- Full downstream protection with secondary PDU breakers
- Remote input power monitoring
- Comprehensive TVSS surge suppression
- Extended product life

1.1.2—Key Product Specs for Current Models

- **Input:** 480/277 VAC three phase Wye or some other appropriate three phase input
- **Output:** A combination of 240 VAC single phase, 415/240 three phase and 480/277 VAC three phase that fit within the power limitations of the unit.
- **Output Receptacles:** Both individual receptacles and/or bulk receptacles that fit within the power budget of the unit. Each receptacle has its own branch rated circuit protection.
- **Input Power Monitoring:** Remote monitoring of voltage, amperage, power factor, power quality etc.
- **Over Temperature:** Provides warnings prior to thermal safety shutoff.

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1.1.3—125-Amp Model vs 100-Amp Model

The Chameleon™ 100 currently comes in three variations: the Chameleon100-125J21A1A (125A), which requires a j-box, and the Chameleon100-100P21A00 or Chameleon100-100P21A1A (100A), each of which uses an input plug (see **Section 4—Product Specifications**).

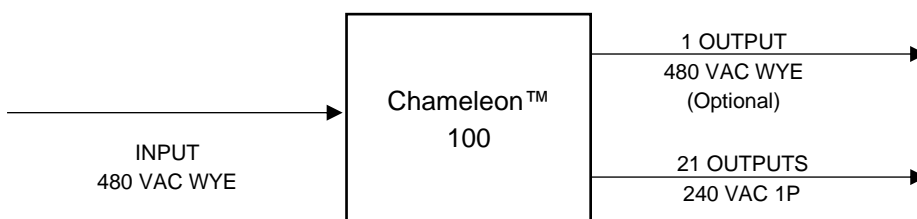


Figure 1—Power Flow

Additional models with different input and outputs options have been defined but are not covered in this manual. Different size units based on other transformers have also been defined but are not covered in this manual. Please contact Power Innovations for more information on other models.

1.1.4—Safety Features

- Short circuit protection
- Over-temperature warnings and shutdown (see **3.2.1—Temperature Monitoring**)

1.2—Using This Manual

This manual will show how to safely receive, unpack and install Power Innovations International, Inc.'s Chameleon™ 100 Rack PDU.

Read and understand this manual to make installing and operating the system as easy as possible.

1.3—Conventions Used in This Manual

To make this manual easier to read, several formatting conventions have been adopted.

1.3.1—Breaker Positions

Because some breakers share names with its subsystems or operation modes, breakers and their positions will be identified using all caps. Additionally, the words ON and OFF are always capitalized to stress which position is correct.

This convention exists to prevent the system components from becoming confused with names of breakers. Skimming the words that are capitalized can also serve as a quick-reference method for learning the functions of the breakers.

1.3.2—Additional Advice

This manual will occasionally provide additional advice. When it is provided, this information will be enclosed by a set of lines to separate it from the rest of the text, like this:

This text does not belong with the rest.

Some of the information is very important, while other information may be good to know. To show the importance of each piece of information, the following symbols are used:

ELECTRICAL WARNING



Denotes advice that, if not followed, could cause severe bodily harm due to electrical shock.

WARNING



Denotes advice that, if not followed, could cause severe bodily harm due to other types of injury.

Caution



Offers advice that, if not followed, may harm equipment or indirectly cause physical hazards.

Usually these symbols will be listed in order of importance. Other information is provided merely to be helpful.



Note

Offers practical advice that may be helpful but can be disregarded.



Manual Help

Provides references to other manual sections or drawings that accompany this manual.



Additional Manuals

Provides references to other manuals that may also be provided with this system.

1.4—Safety Warnings and Cautions

This section provides important information that you will need to remember in order to safely operate your system. Read it carefully.

This manual provides very little information about maintaining the unit. Nothing inside of the enclosure is user-serviceable.

All maintenance must be performed by a service technician at Power Innovations.

1.4.1—ELECTRICAL WARNINGS



DO NOT open the cover. There are no user-serviceable parts inside.

DO NOT insert any object into any of the ventilation holes (or any other openings) on the Chameleon™ 100.

1.4.2—WARNINGS



The Chameleon™ 100 is intended for installation in a controlled environment.

For safety, read this manual carefully before operating the Chameleon™ 100 unit. Follow all installation instructions and warnings.

1.4.3—Cautions



Obey all warnings within this manual. Failure to do so may void the warranty.

2—Unpacking and Installation

Unpack the contents of the box carefully. Contents is heavy and will weigh between 250 and 350 pounds.

Save all packaging for future needs.

Caution



Not saving packaging may contribute to damage incurred during future packaged transport or shipping. This box was designed specifically for this product, and replacement packaging may not protect the product sufficiently. Any such resulting damage is not covered by the product warranty.

2.1—Webbing Sling

The Chameleon™ 100 is shipped with two 6.5-foot 2,000-pound capacity lifting slings that were used to place the Chameleon™ in the box. Using a forklift, insert each tine of the forklift into one of the gray loops on each sling and lift straight up to safely remove the Chameleon from the shipping container. Place the Chameleon™ 100 main enclosure on a scissor lift or other appropriate equipment for moving the unit to the rack where it will be installed.

2.2—Installation Site

The Chameleon™ 100 is designed to be installed in a rack system with front to rear ventilation.

The power input is designed to be accessed from below a raised floor and input through either a junction box or a connector on a cable, depending on the options requested.

The system will operate better if placed in a controlled environment.

For the Chameleon™ 100 to perform most reliably, it should be placed where:

- The temperature is above 0 °C (32 °F) and below 40 °C (104 °F).
- The humidity is less than 90% noncondensing.



Figure 2—Chameleon 100 Being Lowered Using the Webbing Sling and Forklift

WARNING



Avoid exposing the unit directly to the elements (sunlight, rain, snow, sand, dust, wind).

2.2.1—Post Site Placement

Prior to startup, make sure that the Chameleon™ 100 is in a location where water cannot damage the unit.

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Before connecting any cables, be sure the INPUT breaker (located in the front) is turned OFF.

2.3—Installing the Unit

2.3.1—Input/Output Overviews

Input and output connections are located on the rear of the Chameleon™. The single-phase output receptacles located on the back of system are split into three sections of seven that correspond with the three phases of 240 V. The receptacles are labeled from 1 to 21 and are associated with the breakers on the front of the system (see **Section 3.1.1**)

There is also an optional bulk, three-phase output (J22). This output may be configured as a 480/277 VAC or 415/240 VAC depending on the options ordered.

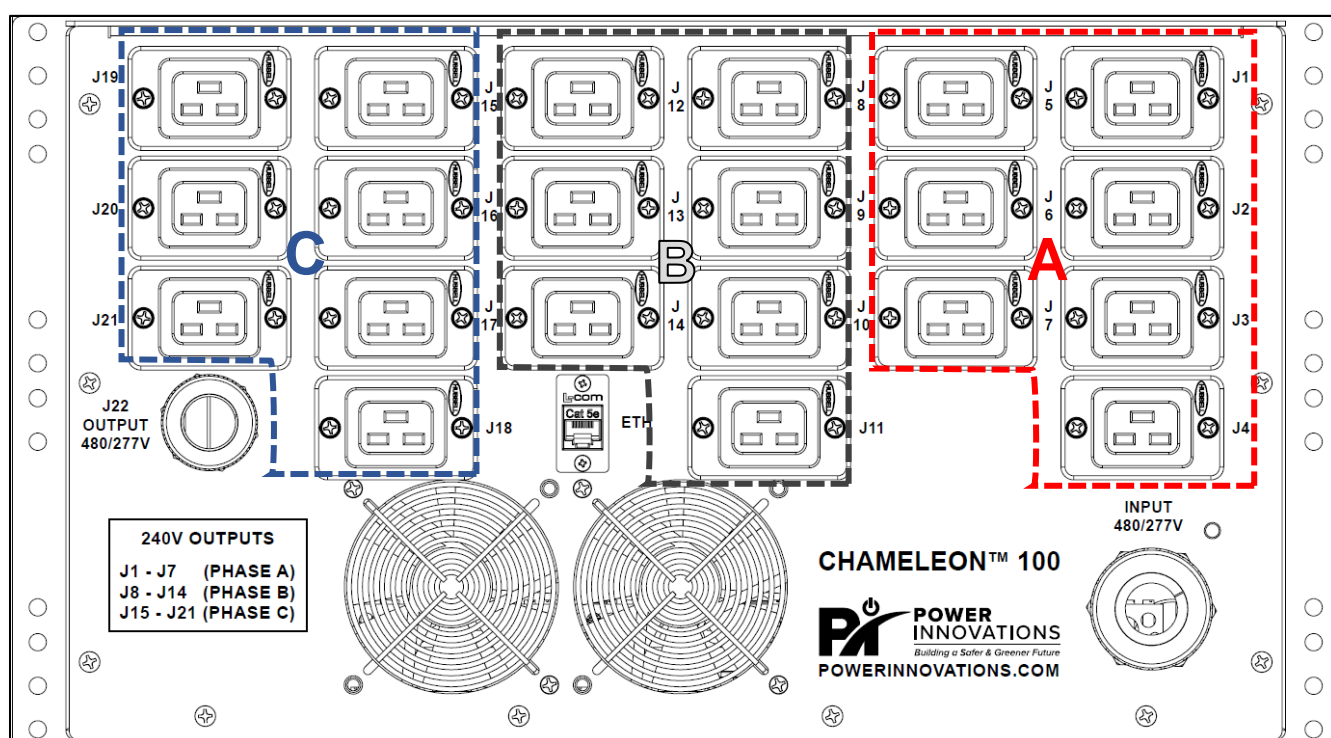


Figure 3—Rear View

2.3.2—Installation and Setup

1. Before connecting the AC power source to the input receptacle, be sure the INPUT breaker (on the front of the Chameleon) is turned OFF.
2. The 125A unit has a higher input amperage and requires an input junction box (see **Table 1—Wiring Gauges and Recommended Torqueing**). The 100A unit has a lower amperage and can use an input plug or a junction box (**Table 1**). Connect the AC power source to the AC junction box or the AC input plug as appropriate (see **Section 02**).

| | 100 A | 125 A | Ground |
|--------|------------|------------|------------|
| AWG | 1 | 2 | 6 |
| Torque | 275 lb-in. | 275 lb-in. | 157 lb-in. |

Table 1—Wiring Gauges and Recommended Torqueing

2.3.2.1—125A Model Installation

Option A – Installing with the junction box attached to the Chameleon™ 100

1. If required, cut holes in the gland plate of the junction box for the Chameleon™ 100 connections and facility connections.
2. Prepare the cabinet for installation:
 - a. Remove the mounting rail, if installed, at the bottom of the rack and set the rail aside.
 - b. Using a scissor lift or other appropriate equipment to support the main Chameleon™ 100 enclosure, slide the junction box and conduit through the cabinet to its desired location under the raised floor beneath the rack.



WARNING

Do not lift any object weighing more than 50 pounds by yourself. Objects weighing more than 50 pounds should be lifted using the appropriate equipment.

3. Reinstall the rails on the rack.
4. Using a scissor lift or other appropriate equipment, set the Chameleon™ 100 on the rails and attach it to the rails.
5. Land the facility connection on the terminal block in the junction box and wire each to the appropriate terminal.

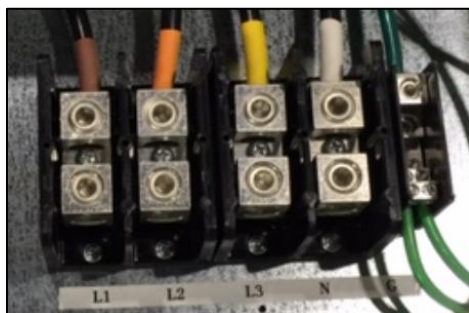


Figure 4—Terminal Block within the Junction Box

Option B – Installing with the junction box not attached to the Chameleon™ 100

1. Remove the wires and conduit from the junction box.
2. To support the Chameleon™ 100 use a scissor lift or other appropriate equipment to move the main enclosure to the rack and slide the conduit through the rack.
3. Set the main enclosure on the rails.
4. Run the conduit from the Chameleon™ 100 to the junction box.
5. Connect the conduit to the junction box and the wires to the terminal block within the junction box:

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- a. Connect the brown wire to L1.
- b. Connect the orange wire to L2.
- c. Connect the yellow wire to L3.
- d. Connect the white wire to N.
- e. Connect the grounding cables to G.

2.3.2.2—100A Model Installation

1. Using a scissor lift or other appropriate equipment to support the main Chameleon™ 100 enclosure, slide the input cable through the cabinet to its location under the raised floor beneath the rack.
2. Slid the main enclosure into the rack on the rails.
3. Simply plug in the IEC 60309 5100P7W 480V, 100A input plug into a mating receptacle connected to the facility mains.



ELECTRICAL WARNING

Standard electrical safety procedures should be followed while installing and operating this system.

2.4—Adding/Removing an Output Device

2.4.1—Adding an Output Device

1. Verify that the Chameleon™ 100 secondary breaker associated with the desired receptacle is OFF.
2. Verify that all connected devices are OFF.
3. Plug in the device.
4. Turn the secondary breaker (S1-S22) for the selected receptacle (J1-J22) ON.

2.4.2—Removing a Connected Device

1. Verify that the Chameleon™ output breaker associated with the output receptacle is OFF.



ELECTRICAL WARNING

Always verify that the Chameleon and any output devices are OFF before adding/ removing an output device.

2. Verify that connected devices are all OFF.
3. Carefully unplug the device from the output socket, making sure to handle all cables carefully.

3—Operation

3.1—System Breakers

The Chameleon™ 100 is equipped with 21 20-amp breakers (S1-S21) split into three groups of seven that correspond with the three phases of the system. Additionally, each breaker corresponds with the output receptacle of the same number on the back of the system, e.g. turning ON S1 will energize J1 (see **Section 2.2.1**).

3.1.1—Startup

1. Turn ON the MAIN breaker (INPUT breaker).
2. Turn ON the desired 240 VAC output breakers (S1-S21) from any of the A, B, C selections, and/or the optional 480/277 VAC output breaker (S22).

Once the startup procedure is complete, the Chameleon™ 100 should be left ON during normal operation. An output device can be turned ON or OFF without turning the Chameleon system ON or OFF using the breakers.

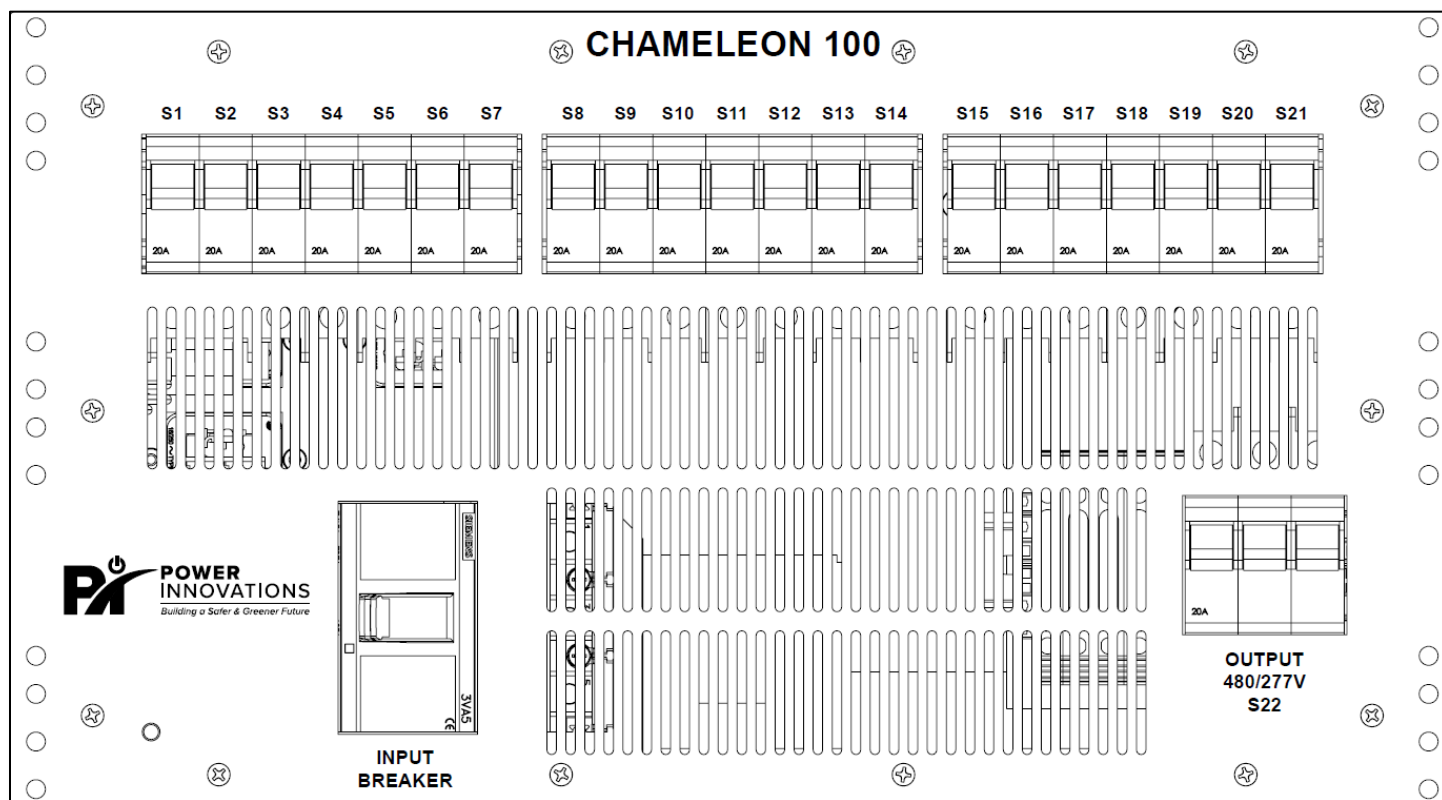


Figure 5—Key External Features (front)

3.2—Operating Temperature

Always operate the Chameleon within the correct temperature range, as specified in **Section 4—Product Specifications**.

3.2.1—Temperature Monitoring

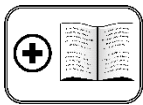
The Chameleon™ 100 has two thermostats that monitor the transformer temperature and provide over temperature warning when the temperature of the transformer reaches 120 °C. This warning is given through the power meter. The Chameleon™ 100 is also designed to turn OFF when the transformer reaches a threshold of 140 °C or the internal enclosure temperature reaches 70 °C.

If the unit self protects by shutting off, the source of the overheat should be resolved before restarting. The system is restarted by resetting the input breaker.

3.3—Power Monitoring and Alarms

Each Chameleon™ 100 contains an Acuvim II Series Power Meter and two expansion modules from Accuenergy. They have been preprogrammed for the Chameleon™ 100 operating parameters. They have not been programed for the types of alerts or alarms that the facility may want to use.

Additional Manuals



The Accuenergy Acuvim II Series Power Meter User's Manual should be consulted for the complete list of functions and features. The manual also outlines how to set up the web browser, alerts and alarms. See: <https://www.accuenergy.com/files/acuvim-ii/Acuvim-II-Power-Meter-User-Manual-1040E1303.pdf>.

3.3.1—Acuvim II Power Meter

Input power quality is monitored using the Acuvim II-M-5A-P1. The following are some of the items that can be monitored:

- Monitoring
 - Voltage, current, power quality, total harmonic distortion
 - Max/min statistics with time stamps
- Data Logging and Alarms
 - Events are recorded, and time stamped when monitored parameters exceed user set limits
 - If events persist, alarms or emails can be forwarded
- Thermal Over Temperature
 - The system is configured with an Acuvim AXM-IO1 expansion module. It provides 24 V to the normally open 120 °C thermal sensors. If one of the sensors closes (overheats), then the AXM-IO1 signal is activated.

- Consult the Acuvim II Series Meter Web Server information located in the Accuenergy manual **section 5.2.11** for more information on how to read this sensor and set it up as an alarm. The web browser alert is shown in **Figure 6** below as “DI1 Status ON.”

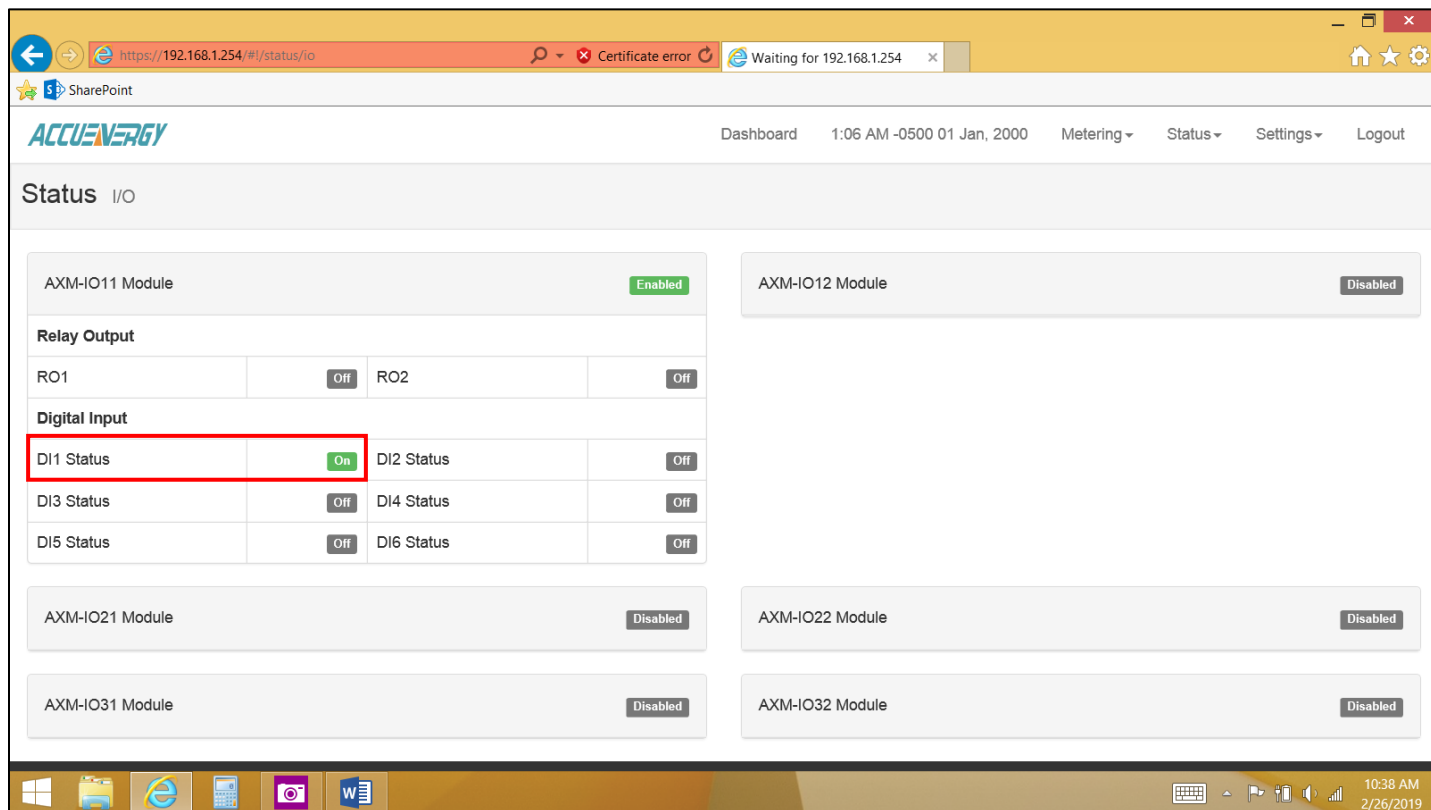


Figure 6—Over Temperature Alert -DI1 Status

- Communications
 - The system is configured with the Acuvim AXM-WEB-PUSH Ethernet TCP communications expansion module. This module is accessed via the RJ45 connector on the rear of the Chameleon™ 100. It can be connected to a central control panel to monitor power quality, voltage, current, and all the other parameters available from the Acuvim II Series Power Meter or its expansion modules.
 - Consult the Accuenergy manual **section 5.2.11** for information on the webpage browser.

3.3.2—Power Meter Reset Switch

Equipped with a switch and fuse that protect the power meter. If ethernet communication is lost to the power meter it can be restored by turning the Power Meter Reset Switch OFF then back ON.



Caution

This Power Meter Reset Switch should always be ON during operation.

3.4—Maintenance

The Chameleon is designed for maintenance-free operation and requires very little attention from users.

Caution



There are no user-serviceable parts inside. DO NOT remove the cover or attempt to service the Chameleon. Unauthorized service will void the warranty laid forth in this manual.

3.4.1—No User Serviceable Components

There are no user servable components in the main Chameleon™ 100 enclosure. If there is a problem, replace the unit with a spare and return the unit to Power Innovations for repair using an RMA number provided by Power Innovations. There is one exception. That is if the unit has an input junction box, it may be detached from the conduit for installation and then reattached before powering up.

3.4.2—Cleaning

To ensure trouble-free operation, keep the unit clean by dusting the cover with a dry cloth. Keep vents clear of dust and build-up.

3.5—Troubleshooting

Due to its unique design, the Chameleon must be serviced only by authorized personnel. If the unit fails to operate properly, contact Power Innovations customer support.

If there is a problem with the Chameleon, refer to Table 1, Troubleshooting Guide before contacting Customer Service. If the problem cannot be resolved, contact Power Innovations Customer Service at 801-785-4123.

Table 2—Troubleshooting Guide

| Symptom | Problem | Solution |
|---------------------------------------|--|--|
| No output voltage. | INPUT breaker Tripped. | Reset ON breaker. |
| | System is overheating. | Allow the system to cool. It will restart automatically. Verify that the system has adequate ventilation. Make sure the system is not overloaded. Make sure ventilation fans are working (if it has failed, call Customer Service). |
| | Component failure. | Not user-serviceable. Contact Customer Service. |
| Ventilation fan has failed. | Component failure. System will be working but system may overheat. | Not user-serviceable. Contact Customer Service. |
| Ethernet communication has been lost. | The firmware may need to be reset. | Turn the Power Meter Reset Switch OFF then back ON. |
| Cooling fans have ceased functioning. | 1. The Power Meter Reset Switch has been turned OFF. 2. The 12 VDC fan power supply has failed. | 1. Turn ON the Power Meter Reset Switch. 2. Return Power Innovations for repair. |

4—Product Specifications

Table 3—Product Specifications

| General | Chameleon100-125J21A1A (125A) | Chameleon100- 100P21A00 (100A) | Chameleon100- 100P21A1A (100A) |
|---|---|--|--|
| Output | | | |
| Capacity (VA) | 104,000 | 83,000 | 83,000 |
| Capacity (Watts) Non-Continuous Service | 104,000 | 83,000 | 83,000 |
| Capacity (Watts) Continuous Service | 83,000 | 66,500 | 66,500 |
| Nominal Voltage (3 phase) | 480 VAC | None | 480 VAC |
| Nominal Voltage (1 phase) | 240 VAC | 240 VAC | 240 VAC |
| Frequency | 60 Hz | 60 Hz | 60 Hz |
| Power Factor | 1.00 | 1.00 | 1.00 |
| Single Phase Outlets | 21 20-amp C19 outlets | 21 20-amp C19 outlets | 21 20-amp C19 outlets |
| Three Phase Outlets | 18-inch cable with L22-20R | None | 18-inch cable with L22-20R |
| Input | | | |
| Current (amp) | 125 | 100 | 100 |
| Voltage | 480 VAC Wye | 480 VAC Wye | 480 VAC Wye |
| Frequency | 60 Hz | 60 Hz | 60 Hz |
| Power Factor | 0.999 | 0.999 | 0.999 |
| Connection Method | Terminal Block (3P, 5W) within Junction Box on a 10-foot sealtite conduit | IEC 60309 5100P7W 480 VAC, 100-amp plug on a 10-foot cable | IEC 60309 5100P7W 480 VAC, 100-amp plug on a 10-foot cable |
| System | | | |
| Efficiency | 99%+ | 99%+ | 99%+ |
| Short Circuit Rating | 10,000 | 10,000 | 10,000 |
| Output THD (linear load) | 1.2% | 1.2% | 1.2% |
| Certifications | | | |
| NRTL (TUV us) | Listed to UL 60950-1 | Listed to UL 60950-1 | Listed to UL 60950-1 |
| CE | Upon Request | Upon Request | Upon Request |
| Environmental | | | |
| Maximum Heat Dissipation kW | <1 | <1 | <1 |
| Maximum Heat Dissipation BTU/hr | <3412 | <3412 | <3412 |
| Operating Temperature Derating 7 °F (4 °C) for every 3,281 ft (1,000 m) above 6,600 ft (2,000 m) | 32 to 104 °F (0 to 40 °C) Up to 6,600 feet (2,000 m) | 32 to 104 °F (0 to 40 °C) Up to 6,600 feet (2,000 m) | 32 to 104 °F (0 to 40 °C) Up to 6,600 feet (2,000 m) |
| Humidity | 0% to 90% non-condensing | 0% to 90% non-condensing | 0% to 90% non-condensing |
| Audible Noise | <65 dBA at 1 meter | <65 dBA at 1 meter | <65 dBA at 1 meter |
| Physical | | | |
| W x D x H (inches) | 33.63 x 17.44 x 10.44 Without cables, conduits, J-Box | 33.33 x 17.44 x 10.44 Without input cable | 33.33 x 17.44 x 10.44 Without input cable |
| Total Weight | 335 lb (152 kg) | 322 lb (146 kg) | 322 lb (146 kg) |
| Weight (without input j- box/ conduit or cable) | 286 lb 130 kg) | 290 lb (132kg) | 290 lb (132kg) |

Limited Warranty

Power Innovations International, Inc. (hereinafter "PII"), warrants this product to be free from defects in material and workmanship for a period of one year from the startup date, provided initial power-up is performed by a PII certified technician. The initial power-up must be performed within six (6) months of the PII shipping date, and the product must be stored in a suitable environment prior to power-up, with batteries being charged as recommended. The warranty includes twelve-month (12) coverage of parts only. Various service contracts that cover parts, labor, and travel are sold separately.

This Warranty does not cover any product that has been misused, not operated or handled according to the instructions contained in the User's Manual, and/or which has been installed or serviced by an unauthorized technician.

Repair or Replacement

If any part or portion of the PII product fails to conform to the Warranty within the Warranty period, PII, at its option, will furnish new or factory remanufactured products for repair or replacement of that portion or part. Replacement parts or unit may be new or refurbished and will meet specifications of the original parts or unit.

Legal Rights and Restrictions

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. This warranty is limited to the original end user of the product and is not transferable. This warranty covers only PII supplied components. Service required as a result of third-party components is not covered under this warranty.

Proof of Purchase

Proof of purchase will be required by PII to substantiate date of purchase. Such proof of purchase must be an original bill of sale or receipt containing name and address of seller, purchaser, and the serial number of the product.

Limitation of Remedies

PII's entire liability and the User's exclusive remedy will be repair or replacement of the unit if all conditions described under "Limited Warranty" have been met. In no event will PII be liable for indirect, special, incidental, consequential, or exemplary damages of any kind whatsoever arising out of the use of this unit, including without limitation, lost profits, business interruption, or loss of data, whether any claim is based upon theories of contract, negligence, strict liability, tort, or otherwise.

Incidental Damages

In no event will PII be liable for indirect, special, incidental, consequential, or exemplary damages of any kind whatsoever arising out of the use of this unit, including without limitation, lost profits, business interruption, or loss of data, whether any claim is based upon theories of contract, negligence, strict liability, tort, or otherwise.

Warranty Claims

Customer Support

Questions concerning the operation, repair or maintenance of this equipment should be directed to the Service Department of Power Innovations International, Inc. (hereinafter "PII"). When making such an inquiry, provide the Service Department with the model number, serial number, and approximate date of receipt of the equipment.

Making a Claim

Within a reasonable time, but in no case to exceed thirty days, after discovery of a defect, the purchaser shall contact PII at 801-785-4123. It is the obligation of the purchaser to have the product shipped, freight prepaid, or delivered to the authorized reseller from whom it was purchased, or other facility authorized by PII to render the services provided hereunder in the original package. All products returned to PII for service MUST have prior approval, which should be obtained by calling 801-785-4123.

Claim Restrictions

The product must not have been previously altered, repaired, or serviced by anyone other than a service facility authorized by PII to render such service, and the serial number of the product must not have been altered or removed. To be covered by this warranty, the product will not have been subjected to accident, misuse or abuse, or operated contrary to the instructions contained in the User's Manual. Any such conditions will void this warranty.

Prior to Any Return

If it is deemed necessary to return this equipment to the factory for servicing, contact the Customer Support Department for authorization and an RMA number.

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Contacting Power Innovations

If there are any questions or comments about this product, please feel free to contact us.

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Building a Safer and Greener Future