

Product Specifications

Power Modules

Each Tricon chassis is equipped with two Power Modules—either one is fully capable of running the Tricon at full load and rated temperature. Each Power Module can be replaced online. The Power Modules, located on the left side of the chassis, convert line power to DC power appropriate for all Tricon modules. Terminal strips for system grounding, incoming power and hard-wired alarms are located on the lower left corner of the backplane. Incoming power should be rated for a minimum of 240 watts per power supply.

The Power Module alarm contacts are actuated when:

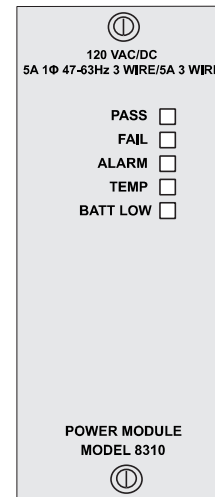
- A module is missing from the system

- The hardware configuration conflicts with the control program’s logical configuration
- A module fails
- A Main Processor detects a system fault
- Primary power to a Power Module fails
- A Power Module has a “Low Battery” or “Over Temperature” warning

WARNING: Do not use the Model 8312 Power Module in Tricon systems that are located in hazardous locations and must meet ATEX requirements. If you have 230 V line voltage and your system must meet ATEX requirements, use the Model 8311 24 VDC Power

Module along with the ATEX-certified 24 VDC power supply from Phoenix Contact (part number: QUINT-PS-100-240AC/24DC/10/EX).

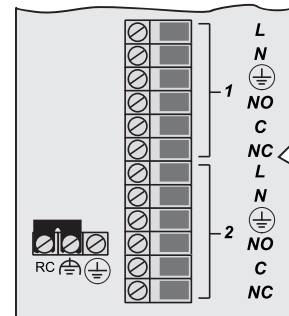
Front Panel of Power Module:
(located on lower left side of chassis)



Power Module Specifications

| | |
|----------------------|--|
| Isolation | >1,000 VAC or 1,500 VDC, Input to Output |
| Input Terminations | Protected by safety cover Accepts three 12-gauge wires (3.310mm ²): neutral, hot, and protective earth (chassis ground) |
| Over-Temp. Sensor | Temperature warning monitor—trips when internal temp. is greater than 181° F (83°C); this typically occurs at ambient temperature 140°F (60°C) or higher |
| Alarm Contacts | Normally open, normally closed and common Each contact supports 120 VAC @ 1 amp Accepts 12-gauge (3.310mm ²) wire Protected by safety cover |
| Input Power Required | 240 watts minimum per Power Module |
| Output Power | 175 watts at 140°F (60°C) |
| Output Voltage | 6.5 VDC, ±1% under all operating conditions |
| Output Current | 27 amps maximum at 140°F (60°C) ambient |

Terminal Strip for Power Module:
(located on backplane above the Power Module)



| Power Module Model | 8310 | 8311 | 8312 |
|---------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Chassis Type | Main/Expansion/RXM | Main/Expansion/RXM | Main/Expansion/RXM |
| Nominal Voltage | 120 VAC/VDC | 24 VDC | 230 VAC |
| Input VAC @ 47-63 Hz | 85–140 | n/a | 185–285 |
| Input VDC | 95–180 | 22–31 | n/a |
| Fuse Rating and Type | 5 amps, time-delay | 15 amps, time-delay | 2.5 amps, time-delay |
| Output Hold Time (nominal to 0 volts) | 20 ms minimum | 2.8 ms minimum | 20 ms minimum |
| Diagnostic Indicators | PASS, FAULT, ALARM, TEMP, BAT LOW | PASS, FAULT, ALARM, TEMP, BAT LOW | PASS, FAULT, ALARM, TEMP, BAT LOW |