

APTER POWER

COMPLETE PRODUCT INFORMATION

8312

230 VAC 175 W Power Module

Triconex 8312 is a 230 VAC, 175 W chassis power module. It supplies regulated 6.5 VDC power and alarm supervision for Tricon main, expansion, or RXM chassis.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon main, expansion, and RXM chassis po

PART

8312

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PRODUCT OVERVIEW

Triconex 8312 is a 230 VAC, 175 W chassis power module. It supplies regulated 6.5 VDC power and alarm supervision for Tricon main, expansion, or RXM chassis.

1 Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules

2 Shares a dual-module redundant chassis power arrangement in which either supply carries full load

3 Provides hard-wired alarm contacts for module, system, input-power, battery, and temperature events

4 Supports online replacement of one power module while the companion module remains in service

SYSTEM COMPONENTS

Tricon main, expansion, or RXM chassis

second redundant chassis power module

185-285 VAC protected feeder

hard-wired alarm and protective-earth terminals

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3008	Main Processor Module	Open product page
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page
Triconex 4329	Network Communication Module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Chassis compatibility	Main; expansion; RXM
Nominal input	230 VAC
Input range	185 to 285 VAC
Input frequency	47 to 63 Hz
Fuse	2.5 A time-delay
Output hold time	20 ms minimum
Input-to-output isolation	>1000 VAC or 1500 VDC
Input conductors	Three 12 AWG (3.310 mm ²)

PARAMETER	VALUE
Over-temperature warning	>181 degF (83 degC) internal
Alarm contacts	NO; NC; common
Alarm-contact rating	120 VAC at 1 A
Minimum input power	240 W per power module
Output power	175 W at 60 degC
Output voltage	6.5 VDC +/-1%
Maximum output current	27 A at 60 degC
Indicators	PASS; FAULT; ALARM; TEMP; BAT LOW

TECHNICAL NOTE

Verify the 230 VAC execution, feeder protection, protective earth, alarm-contact wiring, and companion power-module health before online replacement; check regulated output and all indicators afterward.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant Tricon main-chassis power

Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules

Expansion-chassis supply replacement

Shares a dual-module redundant chassis power arrangement in which either supply carries full load

Remote RXM cabinet power conversion

Provides hard-wired alarm contacts for module, system, input-power, battery, and temperature events

Chassis power-alarm integration

Supports online replacement of one power module while the companion module remains in service

PRODUCT PRECAUTIONS

- 1 Verify 8312 and the 230 VAC chassis position before touching the supply.
- 2 Confirm the companion power module can carry the complete chassis load.
- 3 Isolate the selected 185-285 VAC feeder and prove line, neutral, and earth terminals safe.
- 4 Inspect the two-and-a-half-amp time-delay fuse and protected input terminals.
- 5 Maintain the protective-earth conductor and hard-wired alarm-contact assignments.
- 6 Use ESD controls and observe the approved online replacement sequence.
- 7 Check 6.5 VDC regulation plus PASS, FAULT, ALARM, TEMP, and BAT LOW indications.
- 8 Verify chassis diagnostics and alarm annunciation before restoring full redundancy.

ENGINEER FAQ

Q1 What evidence should be retained after 6.5 VDC output and thermal diagnostics testing on 8312?

Retain the full 8312 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q3 How should an engineer verify 185-285 VAC feeder verification for 8312?

Use the approved connection drawing and the model-specific values in Tricon Systems Technical Product Guide; preserve the as-found terminal, connector, polarity, shield, and channel identity.

Q5 Which installation error is most important to prevent on 8312?

Do not interchange 8312 with an adjacent execution or alter its matched Tricon main, expansion, or RXM chassis; the exact electrical, channel, and connector arrangement must be retained.

Q7 Which diagnostics should be reviewed after installing 8312?

Review the applicable point, module, power, communication, or load indicators for 8312, then confirm the intended role: converts 230 vac line power to the regulated dc supply used by tricon chassis modules.

Q2 Which installed hardware must be matched before fitting 8312?

Match 8312 to Tricon main, expansion, or RXM chassis and second redundant chassis power module, then confirm the complete physical marking and assigned Tricon main, expansion, and RXM chassis power position.

Q4 What check is required for dual-power-module load sharing when commissioning 8312?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

Q6 How is hard-wired alarm-contact testing handled during a 8312 replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.

Q8 Can 8312 be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.