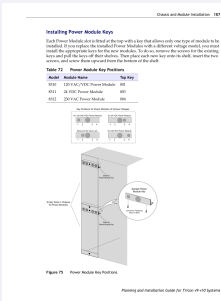


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Triconex 8311

24 VDC Power Module



INPUT	OUTPUT	POWER	SOURCE
24 VDC	6.5 VDC	175 W	9720077-012

Triconex 8311 converts a nominal 24 VDC source into 6.5 VDC chassis power. The manufacturer specifies 175 W output at 60 degrees C ambient and a maximum output current of 27 A. It is a chassis power module, not a 24 VDC field-output supply.

01 VERIFIED PRODUCT PARAMETERS

Recommended input voltage	24 VDC, -15% to +20%
Extended input range	19.2-36 VDC; short periods only
Low-line hysteresis	1.5 VDC minimum
Required source capacity	240 W minimum per power source
Input over-voltage clamp	40 VDC
Steady-state input current	5 A typical; 10 A maximum
Input inrush current	23 A maximum at 24 VDC for 10 ms
Internal fuse	15 A time-delay; not field-removable
Regulated output voltage	6.5 VDC, +/-1%
Output current limit rating	27 A maximum at 60 degrees C ambient

Technical values were verified against Invensys 9700077-012, February 2009.

02 ADDITIONAL TECHNICAL DATA

Rated output power	175 W at 60 degrees C ambient
Input-to-output isolation	1000 VAC or 1500 VDC
Output hold-up at zero input	2.0 ms minimum; 5.6 ms typical
Output over-voltage protection	115% typical; recycle power to restart
Output over-current protection	110% typical; automatic restart

03 SYSTEM ROLE AND APPLICATIONS

Provide an independent source rated at least 240 W for each power module. Normal input operation is 24 VDC minus 15% to plus 20%; the extended 19.2-36 VDC range is for short periods only. Before removal, disable incoming power to the affected module and confirm that secondary power is operating normally.

- Convert an engineered 24 VDC source into the documented 6.5 VDC chassis supply. Account for installed controller modules and reserve at least 240 W of incoming capacity for each power source.
- Feed the two chassis power modules from separately protected sources. For critical service, the guide recommends at least one UPS sized for the connected chassis and the required outage duration.
- Confirm the secondary supply is healthy and disable incoming power to the affected module before removal. Follow the special ATEX restrictions and the minimum 60-second wait before reinstalling a removed module.

04 OFFICIAL INSTALLATION FACTS

- Verify 8311 identity and the documented top slot key 003.
- Provide an independent source rated at least 240 W for each power module.
- Check normal input range, polarity and protective earth.
- Disable affected incoming power and verify healthy secondary power before removal.

05 OFFICIAL DOCUMENTATION

Invensys 9700077-012, February 2009

AMIKON PRODUCT SUPPORT

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