

230 Volt Power Module Specifications

This table lists the specifications for model 8312, which is a 230 VAC Power Module.

Table 6 8312 Power Module Specifications

Feature	Description
Isolation	1000 VAC or 1500 VDC, Input to Output
Nominal input voltage	230 VAC (-15% to +10%)
Extended input voltage range	185 to 285 VAC
Low line on/off hysteresis	15 VAC
Input power required	240 W minimum per power source
Input frequency	47 to 63 Hz
Power factor	0.70 typical
Crest factor	2.5 typical
Input current	
Steady-state	0.4 amps, typical; 1.2 amps, maximum
In-rush (1/2 AC cycle)	18 amps maximum @ 230 VAC
Input fuse rating and type	2.5 amps, time-delay
Output voltage	6.5 VDC, $\pm 1\%$ under all operating conditions
Output current	27 amps minimum at 140° F (60° C) ambient, which refers to the air temperature measured at the bottom of the chassis.
Output power	175 watts at 140° F (60° C) ambient
Output hold time @ 0 volts input	20 ms minimum; 80 ms typical
Output over-voltage protection	125%, typical, recycle power to restart
Output over-current limit	140%, typical, auto restart
Over-temperature warning sensor	Temperature monitor trips when the internal power module temperature is greater than 181° F (83° C). Typically occurs at an ambient temperature of 140° F (60° C) or higher.



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.