

2512-A 75 Watt AC/DC Power Supply with Redundancy Support



Description

The 2512-A is a 120/240VAC/VDC Power Supply designed for CTI 2500 Series and SIMATIC® 505® PLCs. The triple-wide module provides up to 75 watts at +5VDC for use by the PLC CPU and I/O modules. When operated in a dual configuration in a 2500-R11-A base, it provides support for power supply redundancy.

Features

- CTI 2500 Series® or Simatic® 505 base format
- 90-264VAC, 47-63 Hz single-phase input power
- Up to 75 watts @ +5VDC to PLC CPU and I/O modules
- Works in CTI 2500-R11-A and Siemens® 505-6511 bases

Specifications

Field Connections:

One 3-pin 120VAC/125VDC input terminal strip

Input Voltage Operating Range:

90-264VAC, 47-63Hz, single phase or 90-146VDC

Total Wattage Rating:

75 Watts maximum output @ 0° C to 50° C
(derating 1.75W/° C above 50° C)

Steady State Input Current at full load:

1.50 Amps max. @ 110VAC
0.75 Amps max. @ 220VAC

Peak Inrush Current:

37 Amp. max. @ 240VAC input

Fusing:

1.5 Amp 250V, 3 AG front panel accessible

Hold Up Time:

100mSec @ 75W load

Isolation:

1500VAC: 110/220 VAC-to-Backplane
500VDC: Chassis-to-Backplane
1500VAC: 110/220 VAC-to-Chassis
IEC 60950-1

Module Size:

Triple-wide

Operating Temperature:

0° to 60° C (normal locations)
0° to 50° C (Class 1 Div 2 locations)

Storage Temperature:

-40° to 85° C (-40° to 185° F)

Relative Humidity:

5% to 95% (non-condensing)

Agency Approvals:

UL, UL-Canada, Class 1 Div 2, CE
(Note: Approvals apply for VAC ranges only.)

Shipping Weight:

5.0 lbs (2.3 kg)



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ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.

Power Supply Location in Base

The 2512-A Power Supply can be installed in single configurations in standard bases (2500-R4, 2500-R8, 2500-R16-A, 2500P-R4, 2500P-R8, 2500P-R16). For redundancy, 2512-A must be installed in a dual configuration in a 2500-R11-A or 505-6511 base. The two power supplies are installed in the leftmost two slots as shown below. The Power Supply must always be installed in the left-most slot of the system base, as shown in the figure below.



WARNING:

Disable all power to the power supply before installing or removing the power supply. Failure to do so could cause damage to the equipment or injury to personnel.

CAUTION:

Do not attempt to operate the 2512-A Power Supply out of the Input Voltage Operating Ranges of 90 to 264 VAC. Damage to the Power Supply could occur if out of range input is applied.

Installing and Removing the Power Supply

Use the following steps for installing and removing the 2512-A Power Supply from the system base.

1. Remove power from the power supply. NOTE: In single-supply systems this will shut down the PLC.
2. Loosen the top and bottom bezel screws.
3. Grasp the top and bottom of the power supply.
4. Carefully unplug and remove the power supply from the base.
5. Tighten top and bottom bezel screws into the base chassis.

To install a new power supply, reverse procedures 1 through 4 used for removal.