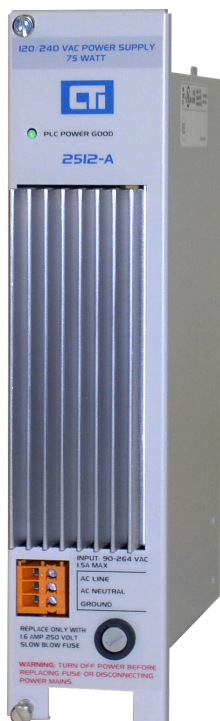


# 2512-A 75 Watt AC/DC Power Supply with Redundancy Support



## Description

The 2512-A is a 120/240VAC/125VDC Power Supply designed for CTI 2500 Series and SIMATIC<sup>®</sup> 505<sup>®</sup> 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<sup>®</sup> or Simatic<sup>®</sup> 505 base format
- 90-240VAC, 47-63 Hz single-phase input power
- 125 VDC input power for utility applications
- Up to 75 watts @ +5VDC to PLC CPU and I/O modules
- Works in CTI 2500-R11-A and Siemens<sup>®</sup> 505-6511 bases

## Specifications

### Field Connections:

One 3-pin 120/240VAC/125VDC input terminal strip

### Input Voltage Operating Range:

90-240VAC, 47-63Hz, single phase or 90-125VDC

### 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:

75 Watt Full Load Ratings	
VAC	Amps
90	1.5
120	1.15
220	0.765
240	0.725
VDC	Amps
90	1.1
125	0.757

### Peak Inrush Current:

37 Amp. max. @ 240VAC input

### ⚠ Fusing:

1.6 Amp 250V, 3 AG front panel accessible  
Littlefuse #031301.6MXP

### Hold Up Time:

12.4 Sec @ 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  
Shipping Weight: 5.0 lbs (2.3 kg)

### Additional Product Information:

On CTI's Website you will find links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance .

Note: Currently agency approval is pending.



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**ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.**

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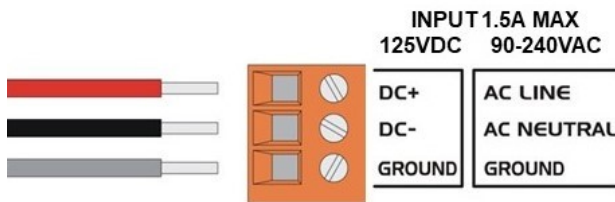
## Power Supply Location in Base

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 may be installed in either of the 2 left-most slots of the system base, as shown in the figure below.



**WARNING:**  
Disable all power to the base 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 240 VAC. Damage to the Power Supply could occur if out-of-range input



## Installing and Removing the Power Supply

Use the following steps for installing and removing the 2515-A Power Supply from the system base.

Steps for removing the power supply:

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.

Additional step for installing the power supply:

1. Tighten top and bottom bezel screws into the base chassis.

**To install a new power supply, reverse procedures 1 through 4 used for removal and then tighten top and bottom bezel screws.**

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



CAUTION – Non-Hazardous Areas/Hazardous Areas

<p>WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.</p>	<p>AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.</p>
<p>WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSE WHEN ENERGIZED.</p>	<p>AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER UN FUSIBLE SI L'APPAREILLAGE EST SOUS TENSION.</p>

Turn off power to the system before replacing fuses either in power supplies or IO modules. Refer to Product Bulletin or Installation and Operation Guide for specific information on the correct fuse for replacement. If there are any questions please contact CTI support. Fuses should only be replaced by qualified technicians.