2500 Series® Process Control System
Product Bulletin

2512 75 Watt AC/DC Power Supply

Classic

Description

The 2512 is a 120/240VAC/125VDC 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.

The 2512 also provides power using 125VDC from battery backup systems like those found in utility applications.

Features

- CTI 2500 Series® or Simatic® 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

Special Note: The 2512 power supply is not compatible for operation in redundant bases. Applications requiring power supply redundancy should employ the 2512-A power supply.

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

Littleluse #031301.6MXP

Hold Up Time:
12 mSec @ 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.

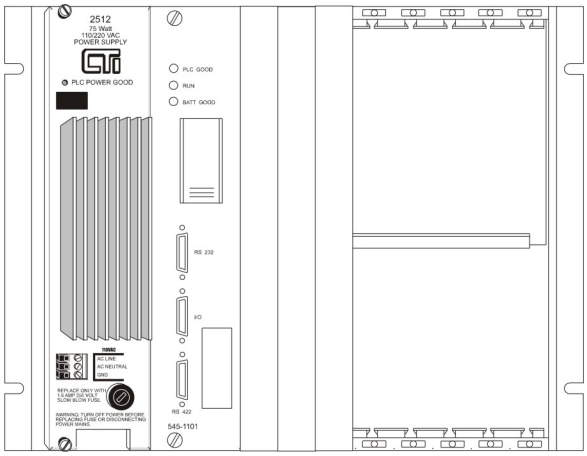
Control Technology Inc.
5734 Middlebrook Pike, Knoxville, TN 37921-5962
Phone: +1.865.584.0440 Fax: +1.865.584.5720
www.controltechnology.com

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.

2512 75 Watt AC/DC Power Supply

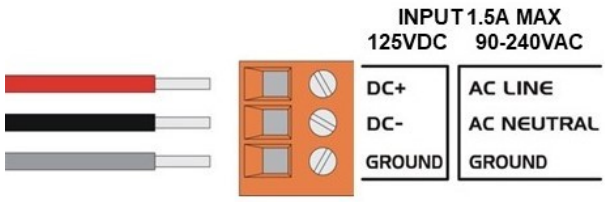
Power Supply Location in Base

The Power Supply must always be installed in the left-most slot of the system base. See 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 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 is applied.



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.

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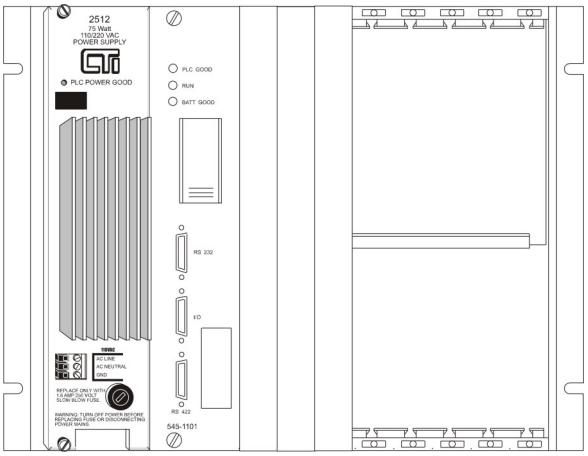

CAUTION – Non-Hazardous Areas/Hazardous Areas

WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.	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.
WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSE WHEN ENER-GIZED.	AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER UN FUSIBLE SI L'APPAREILLAGE EST SOUS TENSION.

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.