

WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and its subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of five full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at www.liteway.com, (516) 931-2800 and the item returned to Liteway, Inc. prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



Important Notices



CAUTION ! AVOID DIRECT EXPOSURE TO BEAM.

All -5, -7, -8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

NOT FOR LIFE SUPPORT SYSTEMS

Liteway, Inc. does not authorize or warrant any of its products or accessories for use in critical life support systems or applications of any kind.

OPERATING INSTRUCTIONS

Universal Switching Power Supply

Model PS-1210S



The PS-1210S is a compact switching power supply designed to allow any AC input from 90 to 270 volts 50/60Hz to produce a 12 Volt DC output at 1 Ampere with either a positive or negative grounded output. The PS-1210S may be used as stand-alone unit or mounted to any RMP Rack Mounting Panel as desired and is ideal for powering most Liteway fiber optic transmission systems from 115-230 Volt AC sources.

Technical Specifications

AC Input	95 to 240 VAC 50/60 Hz (15 watts max)
DC Output	12 VDC
DC Output Current	0 to 1 ampere
Efficiency	77% typical
Switching Frequency	300 -400 KHz
Input/Output Isolation	2250 VDC, 1 megohm, 65pF
Ripple and noise	150 mV rms maximum (5 Hz-20 MHz BW)
Overload Protection	Voltage drops to zero upon short circuit
MTBF	100,000 Hours (MIL-HDBK-217)
Temperature Range	-20° to +75°C
Physical Size (mm)	5.0"(127)L x 1.0"(25.4)W x 4.0"(101.6)D

All specifications are subject to change without prior notice.

Liteway®
Fiber Optic Transmission Systems

www.Liteway.com
USA 516-931-2800

Installation Instructions

Input Power Connections

The input of the PS-1210S is designed to operate from any 50 or 60 Hz AC source throughout the specified range. The AC power connector on the unit is a standard IEC type and will accept power cords with appropriate connectors for most countries that have AC line or Mains voltages within the specifications.

Output Power Terminal Block Connections

Pin	Function
1	Alarm output for use with optional Alarm Sensing Unit ALM-1000. No other connections should be made to this terminal
2	+12 VDC output (isolated from ground and housing)
3	-12 VDC output (isolated from ground and housing)

Note that both output terminals are isolated from ground and the housing. As a result, either may be grounded where necessary.

Warning!

Exceeding the output current rating of the PS-1210S will result in the output voltage immediately dropping to 0 volts due to internal protection circuitry. When the current demand returns to the rated value or less, the circuit will automatically reset and restore the proper output.

Redundant Power Supply Configuration

The PS-1210S may be used singly or in pairs when redundant operation is desired. In a redundant system, the output terminals of one supply are connected in parallel with the output terminals of the second supply. If one power supply fails, the other supply will then provide full power for the load.

134420 Rev H

Alarm Circuitry

The PS-1210S power supply contains an alarm circuit that will signal the loss of one power supply in a redundant system. In such a system the Alarm indicator will light when one supply has lost power. An ALM-1000 Alarm Sensing Module when used will also be activated in an alarm condition.

Indicator Lights

The PS-1210S contains several indicator lights to monitor the operation of the unit. The function of these lights are as follows:

Indicator	Lights when
Pwr	Input power is applied, and the presence of DC output
Alm	One supply has lost power in a redundant power supply configuration
Overload	The output current of the supply has been exceeded



Rear View