

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 (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801-3440, USA, 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

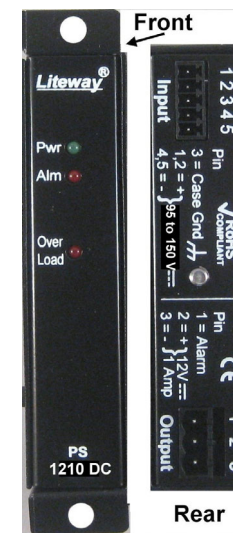
CAUTION ! The laser diodes used in all -7 and -9 Fiber Optic Transmission systems manufactured by Liteway, Inc. utilize solid-state laser diodes located in the optical ports of these units. These laser diodes produce invisible radiation which may be harmful to human eyes. As a result one should never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

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

300 VDC "Floating" Power Supply

Model PS-1210 DC



The PS-1210 DC is a compact switching power supply designed to allow any positive or negative grounded DC input from 95 to 300 volts to produce a 12 volt DC output at 1 ampere with either a positive or negative grounded output. The PS-1210 DC may be used as a stand-alone unit or mounted to any RMP Rack Mounting Panel as desired and is ideal for converting 120 volt DC sources for operation with non-positive grounded equipment.

Technical Specifications

DC Input	95 VDC to 300 VDC (isolated from ground)
DC Output	12 VDC (isolated from ground)
DC Output Current	0 to 1 ampere
Efficiency	77% typical
Switching Frequency	100 KHz nominally
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.

Installation Instructions

The inputs and outputs of the PS-1210 DC are fully isolated from ground, the housing and each other. As a result either the positive or negative terminals of the input or the output may be grounded as required by the application. For example, to accommodate a -300 volt input one would ground the +300 volt input terminal and apply the -300 volt input to the normal negative input terminal. The 12 volt output may be similarly connected.

Input Power Terminal Block Connections

Pin	Function
1, 2	Positive DC input (isolated from ground and housing)
3	No connection
4, 5	Negative DC Input (isolated from ground and housing)
Stud	Ground and Housing

Note that the maximum and minimum DC voltage that can be applied between pins 1 and 2 and pins 3 and 4 is 95 to 300 volts.

Also note that the DC input is reverse polarity protected.

Case ground (housing) is connected to the stud on the rear panel. There are no other connections to the case (housing).

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)

Caution! Exceeding the output current rating of the PS-1210 DC 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-1210 DC 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.

Alarm Circuitry

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

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

Warning!

The PS-1210 DC will not operate with an AC input. Connecting AC voltage to the input will result in damage to the unit and will void any warranty.