OPTIMAL POWER®

Model Number: DZ300-12EU

Data Sheet

Revision A

February 2007

PROPRIETARY DATA

All data in this datasheet is proprietary and may not be disclosed, duplicated or used for procurement or manufacturing purposes, without prior written permission by **OPTIMAL POWER SUPPLIES LLC**

LIABILITY

DO NOT OPERATE OR SERVICE THE DZ300-12EU MODEL WITHOUT READING THE ENTIRE CONTENT OF THIS DATA SHEET

Optimal Power Supplies LLC is not responsible for any kinds of damages sustained through the use of this or any other Optimal Power Supplies LLC products. It is entirely the customer's responsibility to take all the necessary precautionary measures when installing this unit.

WARRANTY

Optimal Power warrants all of its products against defects in materials and workmanship for one year from date of delivery. We will repair, or replace parts which prove to be defective during the warranty period provided that:

- 1. A Return Maintenance Authorization (RMA) is obtained from OPTIMAL POWER at (251) 209-8088 or www.optimal-power.com. Please reference your RMA number on the outside of the box the item is shipped in.
- 2. Shipping charges are pre-paid.

Optimal Power does not endorse any other warranty, expressed or implied, and is not liable for consequential damages. Products that are damaged, opened, or modified do not qualify for a warranty. All terms specified in our website are final. Terms are subject to change. The same procedures must be followed for repairs outside the warranty period.

DZ300-12EU 1U High Power Brick

Product Description

DZ300-12EU 1U High Power Brick is a unique and a highly reliable power supply. It is designed for Universal AC to 24VDC power supply applications. Because of this feature this compact power supply can be used anywhere in the world. This power supply is mainly used in the following applications:



- Computer Peripherals and Networking Applications
- Telecommunications and Fiber Optic Network
- Voice, Data and Analog Communications
- Universities and Educational Facilities
- Instrumentation and Electronics
- Utility and Power Industries
- Data Acquisition
- Medical
- Military

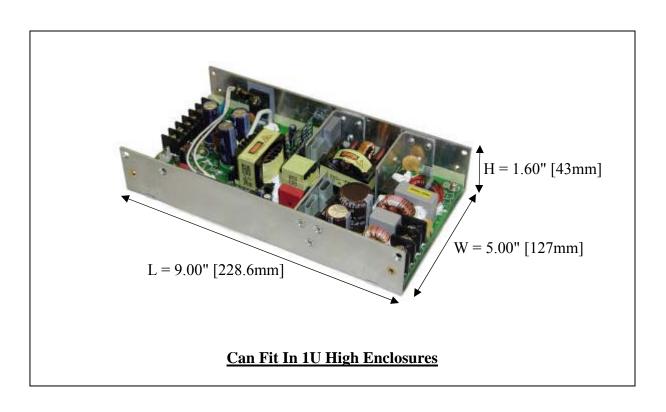
DZ300-12EU 1U High Power Brick is a reliable, efficient and inexpensive solution for all kind of AC to 24VDC power supply applications.

Main Features

- Compact Size (5.0" X 9.0" X 1.6") or (127mm X 228.6mm X 43mm)
- Universal AC (Alternate Current) Input Range of 90VAC to 264VAC
- EMI FCC Class B Clearance
- Single and Multiple Output
- Highly Efficient Design
- 1U Low Profile Height
- NO Minimum Load Required
- Remote Sense and LED Connections
- 300W with active PFC (360W with 18CFM)
- Cost Effective and Reliable Power Supply Solution

General Power Supply Specifications:

Typical Safety Rating:

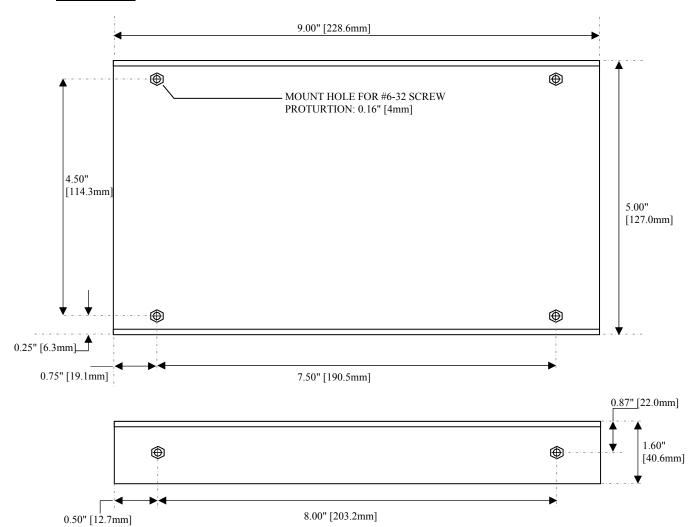


Specifications

Electrical

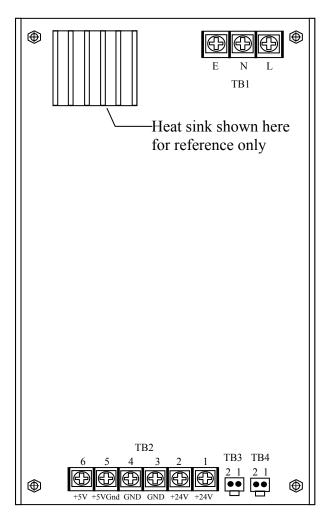
Output Voltage	DC Output 1	DC Output 2	
	24V DC @ 12A (max. 14.6A)	5V DC @ 2A max.	
Ripple and Noise	200 mV (Typical)	50 mV (Typical)	
Output Power	300W (convection cooling)	10W	
	/ 360W at 18CFM for max. output		
Line Regulation	±1%	±1%	
Load Regulation	±1%	±1%	
Tolerance	±3%	±2%	
Input Voltage	Universal 90VAC to 264VAC input		
Input Frequency	47Hz to 63Hz		

Mechanical



Electrical Connections

Connector	Function	Pin Numbers	Description
TB1	AC Input Connections	L	AC Line Input
	HIGH VOLTAGE	N	Neutral Line Input
	USE PRECAUTION	Е	Earth / Chassis Ground
TB2	DC Output Connections	1	+24VDC
		2	+24VDC
	NOTE: For Maximum	3	Common for (+24VDC)
	Current Flow 14AWG Wire	4	Common for (+24VDC)
	Connection Is Required On	5	Ground for (+5V DC)
	Each Terminal	6	+5V DC
TB3	LED DC Output Connection	1	+ (5V DC)
	Molex Part. 5045-02A or equivalent	2	- (Ground)
TB4	Remote Sense	1	+ RS
	Molex Part. 5045-02A or equivalent	2	- RS



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