DPS240/12V Dimmable Power Supply

Custom LitePad®



Rosco's DPS240/12V Dimmable Power Supply is designed to complement larger Custom LitePad installations. The system comes with power supply and controller all pre-wired and ready to integrate with an array of LitePads. Four individually fused outlets, each capable of handling loads up to 60W, provide maximum integration flexibility.

The embedded programmable controller allows an expanded portfolio of color management and color-chasing options.



KEY FEATURES

- 4 separate 5A (60W) fused outlets with overload protection
- Universal AC input: 88 264VAC
- Built in active power factor correction (PFC)

• Dimming control via 0-10V external source, DMX or DALI protocols

- Vented enclosure with cooling via variable speed DC fan
- 3-year warranty

SPECIFICATIONS

31 2311 137 111 3113		PROTECTION	
DPS240/12V		Overload:	105 ~ 135% rated output power
Item Code	Description	Protection type:	Hiccup mode, recovers automatically after fault condition is removed
290 63524 0000	DPS240 Power Supply	Over Voltage:	13.8 ~ 16.2V
270 0032+ 0000	DI 32-10 I OWEI Supply	Protection type:	Shut down o/p voltage, re-power on to recover
OUTPUT		Over Temperature:	80°C ±5°C (70°C ±5°C 3.3V, 5V only)
DC Voltage:	12V		(TSW1: detect on heatsink of power transistor)
Rated Current:	25A	Protection type:	Shut down o/p voltage, recovers automatically
Current Range:	0 ~ 25A		after temperature goes down
Rated Power:	300W	ENVIRONMENT	
Ripple & Noise (Max.) Note.2:	150 mVp-p	- '	-20 ~ +65°C (Refer to "Derating Curve")
Voltage Adj. Range:	10 ~ 13.2V	Working Humidity:	20 ~ 90% RH non-condensing
Voltage Tolerance Note.3:	±1.0%	- '	-40 ~ +85°C, 10-95% RH
Line Regulation:	±0.3%	Temp. Coefficient:	±0.03%/°C (0 ~ 50°C)
Load Regulation:	±0.5%	Vibration:	10 ~ 500Hz, 2G 10min./1 cycle,
Setup, Rise Time:	800ms, 50ms/230VAC	SAFETY & EMC (Note. 4)	60min. each along X,Y, Z axes
	2500ms, 50ms/115VAC at full load	Safety Standards:	UL60950-1, TUV EN60950-1, CCC GB4943
Hold Up Time (Typ.):	16ms/230VAC	Jarety Staridards.	(except for 3.3V, 36V) approved
	16ms/115VAC at full load	Withstand Voltage:	I/P-O/P: 3KVAC
INPUT		Ü	I/P-FG: 2.0KVAC
Voltage Range Note.5:	88 ~ 264VAC		O/P-FG: 0.5KVAC
	124 ~ 370VDC	Isolation Resistance:	I/P-O/P, I/P-FG, O/P-FG:100M Ohms
Frequency Range:	47 ~ 63Hz	E. 10 E	/ 500 VDC / 25°C / 70% RH
Power Factor (Typ.):	PF>0.95/230VAC	EMC Emission:	Compliance to EN55022 (CISPR22) Class B,
	PF>0.98/115VAC at full load	EMC Immunity:	EN61000-3-2, -3 Compliance to EN61000-4-2,3,4,5,6,8,11,
Efficiency (Typ.):	86%	LIVIC IIIIIIIIIIII.	EN55024, light industry level, criteria A
AC Current (Typ.):	115VAC 5A	OTHERS	EN93024, light industry level, entend /
	230VAC 2.5A	MTBF:	207K hrs min. MIL-HDBK-217F (25°C)
Inrush Current (Typ.):	20A/115VAC 40A/230VAC	Dimension:	(L W H): 215 115 50mm
Leakage Current:	<1mA/240VAC	Packing:	1.1 Kg; 12pcs/14Kg/0.92 CUFT

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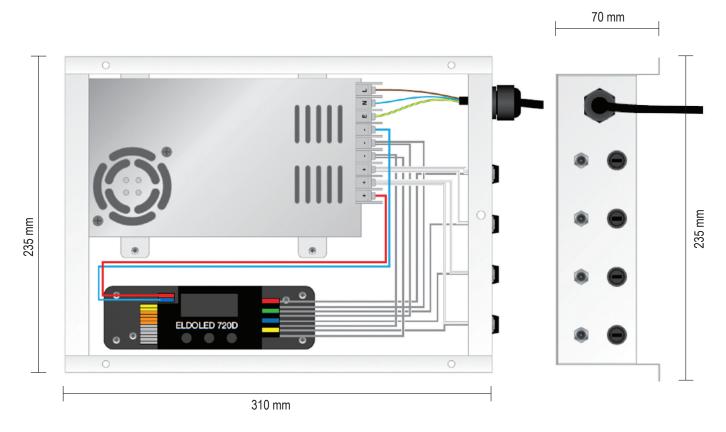




NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using 12" twisted pair-wire terminated with a 0.1 uf & parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be reconfirmed to meet EMC directives. For guidance on how to perform the EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.

DIMENSIONS & CONTENTS





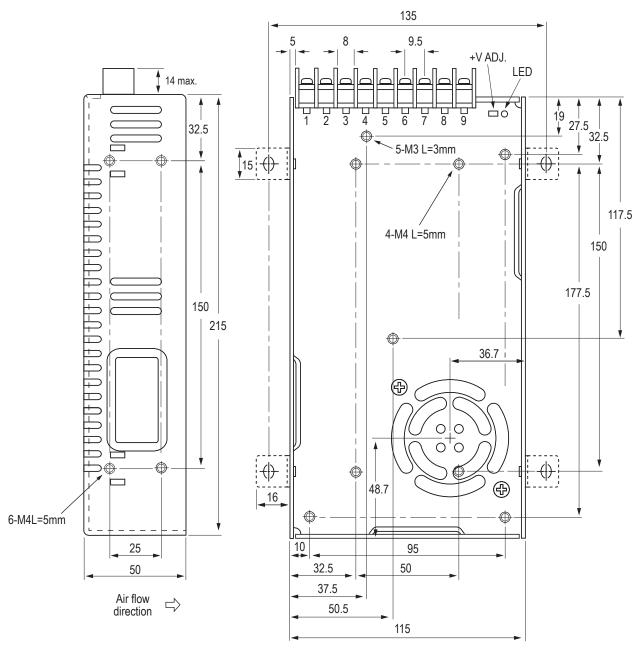
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POWER SUPPLY MECHANICAL SPECIFICATIONS



Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
1	AC/N	7~9	DC OUTPUT +V
3	FG ≟		

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LINEAR DRIVE 720D SPECIFICATIONS

Weight: 144 g, 5.0 oz

WIRING

Cross Section: 0.5 - 1.5 mm², AWG20 - 16

Strip Length: 9 mm / 0.35 in.

CONNECTORS LINEARDRIVE 720D

VDC: + and -

DMX in: +, - and shield LedSync out: +, - and shield + and - (x2) DALI: + and -Ext in: LED Outputs: + and - (x4)

CERTIFICATIONS

IEC 61347, EN 55015, IEC 61003, EN 61547 UL: UL Recognized Component (file no. E333135)

LINEARdrive 100D is Class 2 output.

ENVIRONMENTAL RATINGS

-20°C ~ 50°C / -4°F ~ 122°F Ta range:

Tc max: 65°C / 149°F

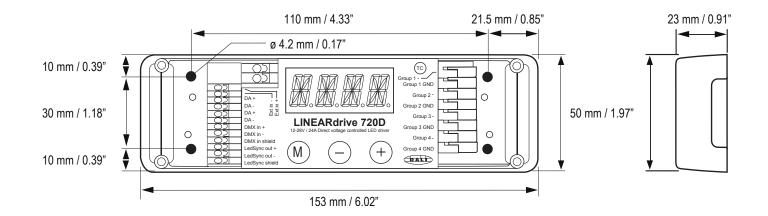
For use in dry locations

CONTROL COMPATIBILITY

DALI control gear (LINEARdrive 720D)

DMX512A and RDM explore & address (ANSI E1.20) control gear

Standard 0-10V switch controls









CE CAN'US DMX RDM DALL SHOW master

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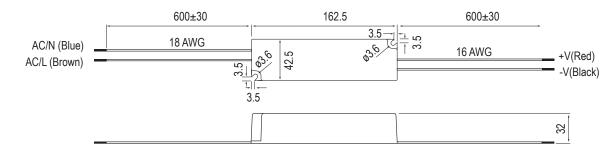
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MECHANICAL SPECIFICATION

Case No. 946A Unit:mm

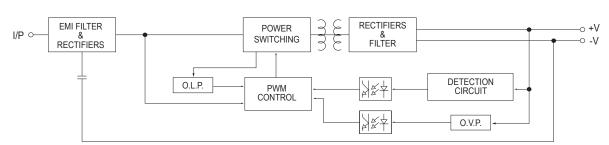


RECOMMENDED MOUNTING DIRECTION



BLOCK DIAGRAM

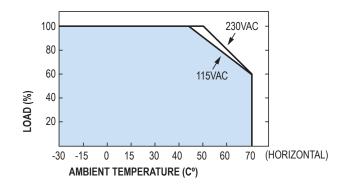
fosc: 65KHz

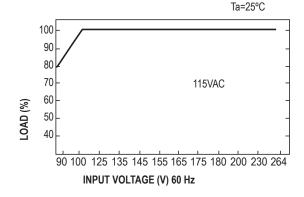


DERATING CURVE

Project:

STATIC CHARACTERISTICS





Name: _ _ Date: _

Company Name: _

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