



# Powerbox 240 DM – 12

Enclosure with pre wired power supply with four fused 5amp (60watt) outlets. Dimmable by DMX, DALI or 0-10 volts

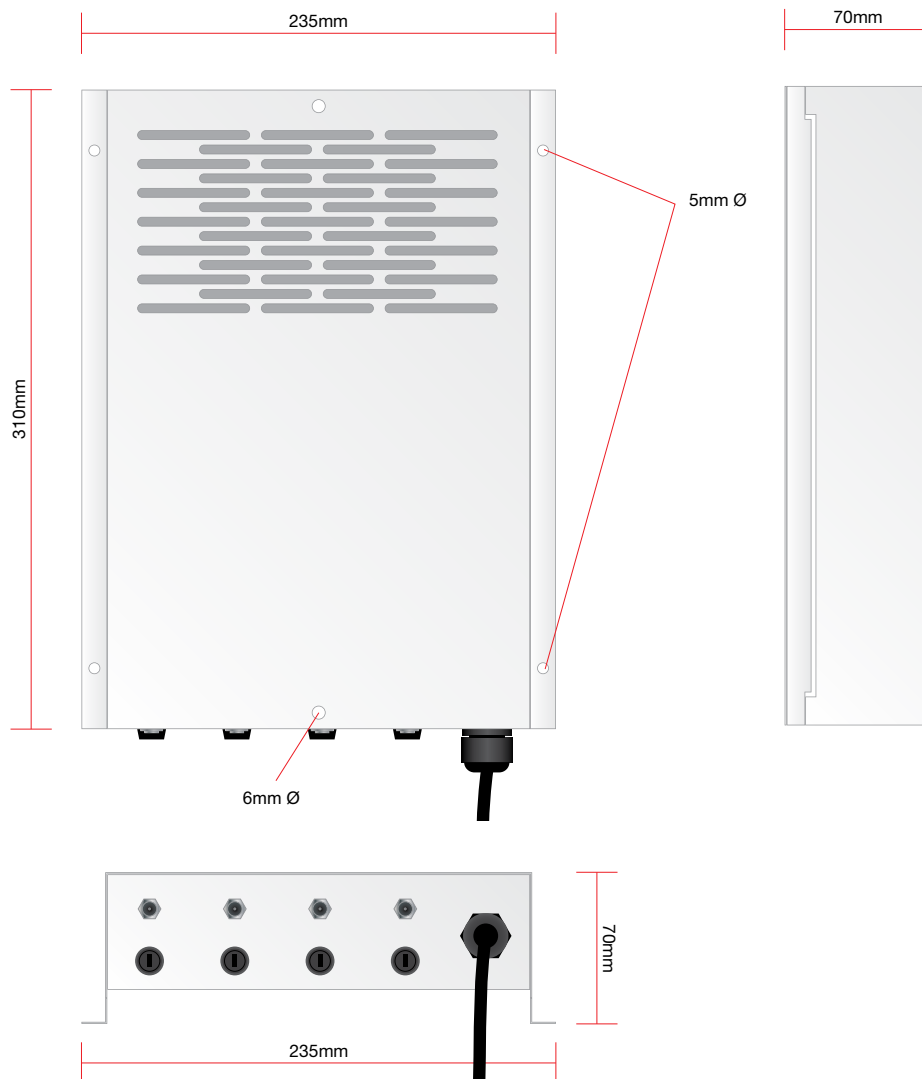
Technical Brochure

# 4 separate 5amp (60watts) fused outlets



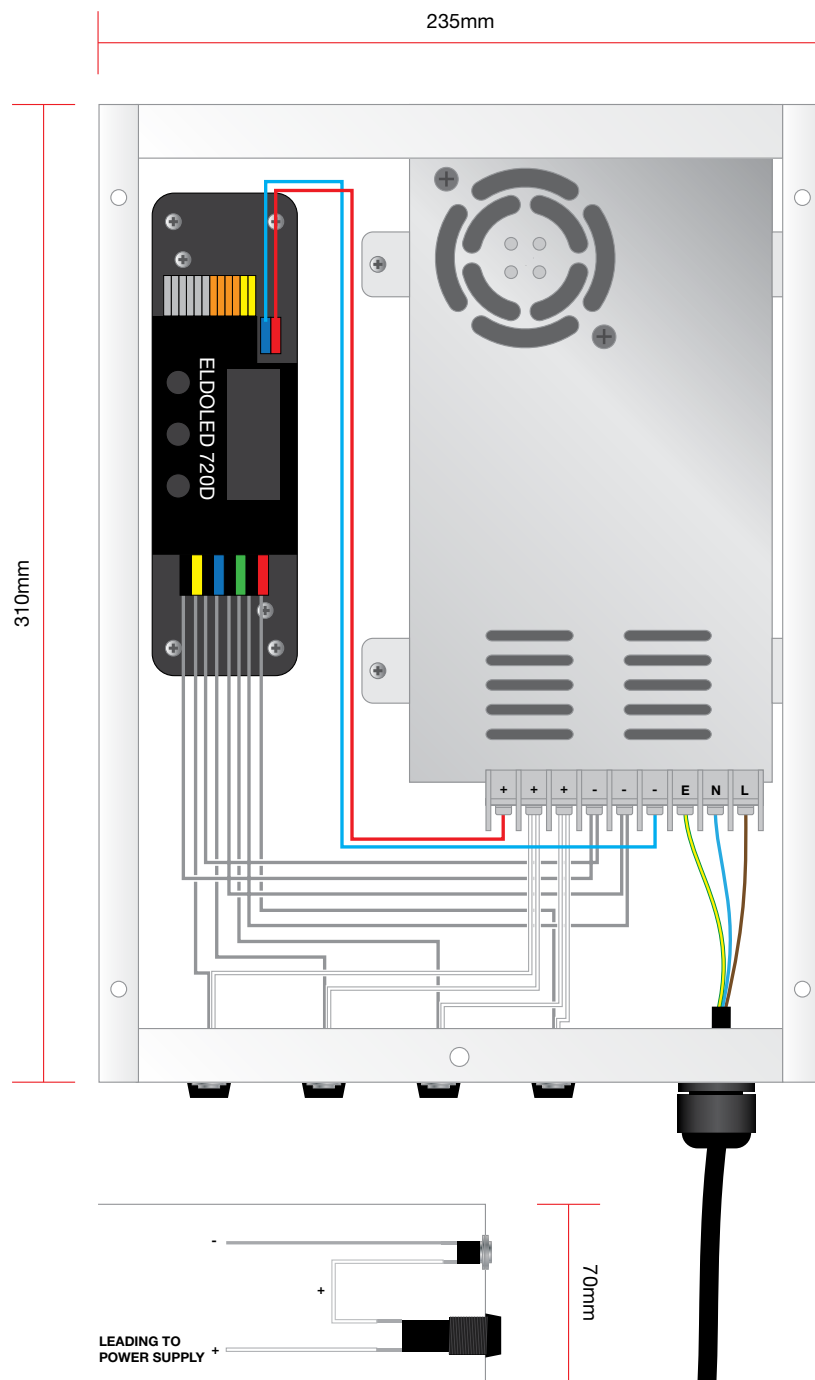
## Powerbox 240 DM – 12

Enclosure with pre wired power supply with four fused 5amp (60watt) outlets. Dimmable by DMX, DALI or 0-10 volts



## Features

- 4 separate 5amp (60watts) fused outlets
- Overload protections on each outlet
- Easy changeable fuse without opening box
- Universal AC input
- Built in active power factor correction (PFC)
- Forced air cooling by built in DC fan
- Built in fan speed control
- Full dali control
- Dimming control via 0-10 volt external source
- Vented enclosure 310(H) x 235(W) x 70(D)mm
- 3 year warranty

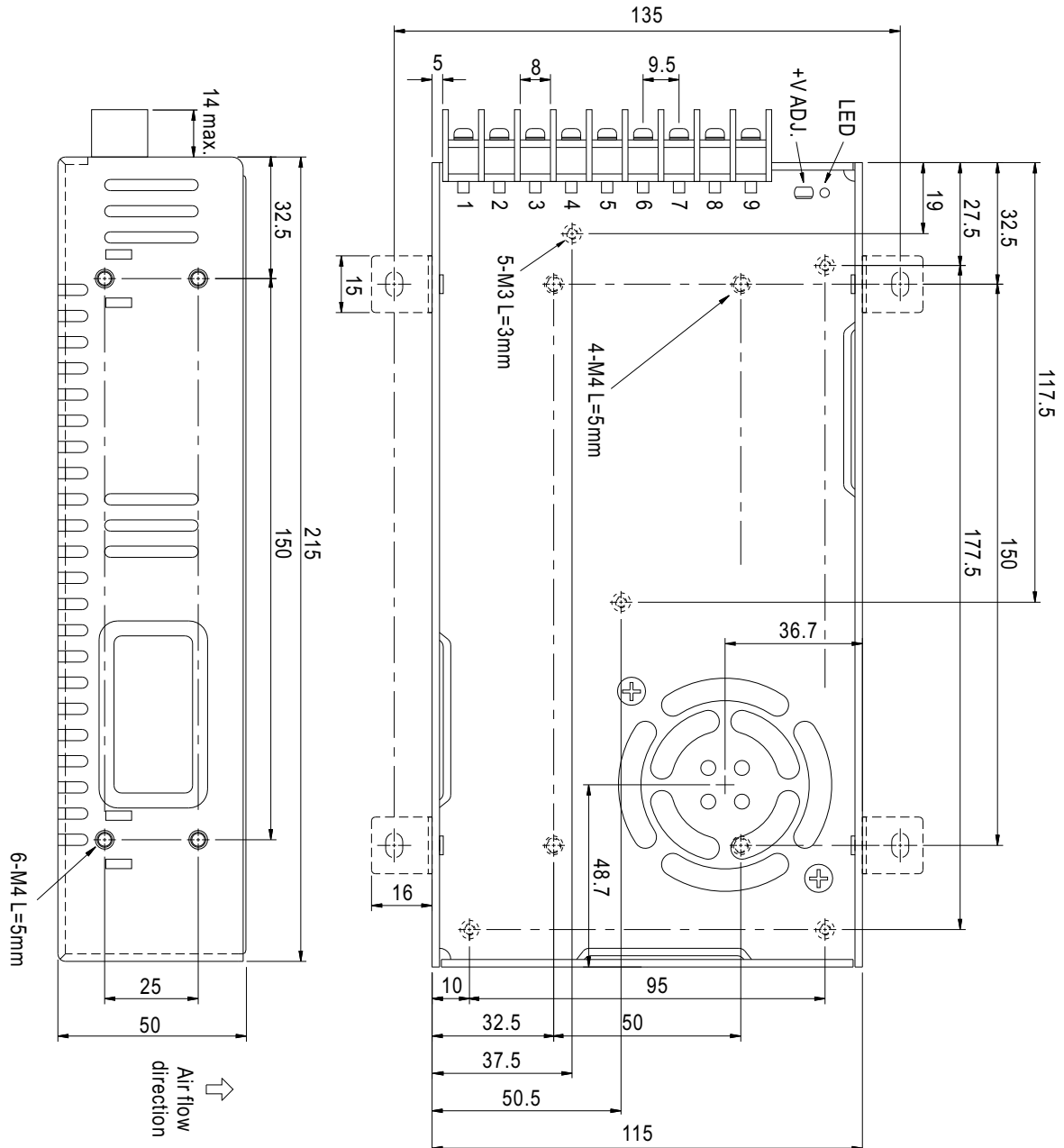


# Power Supply Specification



OUTPUT	DC VOLTAGE		12V
	RATED CURRENT		25A
	CURRENT RANGE		0 ~ 25A
	RATED POWER		300W
	RIPPLE & NOISE (max.) Note.2		150mVp-p
	VOLTAGE ADJ. RANGE		10 ~ 13.2V
	VOLTAGE TOLERANCE Note.3		±1.0%
	LINE REGULATION		±0.3%
	LOAD REGULATION		±0.5%
	SETUP, RISE TIME		800ms, 50ms/230VAC      2500ms, 50ms/115VAC at full load
	HOLD UP TIME (Typ.)		16ms/230VAC      16ms/115VAC at full load
INPUT	VOLTAGE RANGE      Note.5		88 ~ 264VAC      124 ~ 370VDC
	FREQUENCY RANGE		47 ~ 63Hz
	POWER FACTOR (Typ.)		PF>0.95/230VAC      PF>0.98/115VAC at full load
	EFFICIENCY (Typ.)		86%
	AC CURRENT (Typ.)	115VAC	5A
		230VAC	2.5A
	INRUSH CURRENT (Typ.)		20A/115VAC      40A/230VAC
LEAKAGE CURRENT		<1mA / 240VAC	
PROTECTION	OVERLOAD		105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE		13.8 ~ 16.2V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE		80°C ±5°C (70°C ±5°C 3.3V,5V only) (TSW1 : detect on heatsink of power transistor) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.		-20 ~ +65°C (Refer to "Derating Curve")
	WORKING HUMIDITY		20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT		±0.03%/°C (0 ~ 50°C)
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 4)	SAFETY STANDARDS		UL60950-1, TUV EN60950-1, CCC GB4943(except for 3.3V, 36V) approved
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC    I/P-FG:2.0KVAC    O/P-FG:0.5KVAC
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION		Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A
OTHERS	MTBF		207K hrs min.      MIL-HDBK-217F (25°C)
	DIMENSION		215*115*50mm (L*W*H)
	PACKING		1.1Kg; 12pcs/14Kg/0.92CUFT
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>		

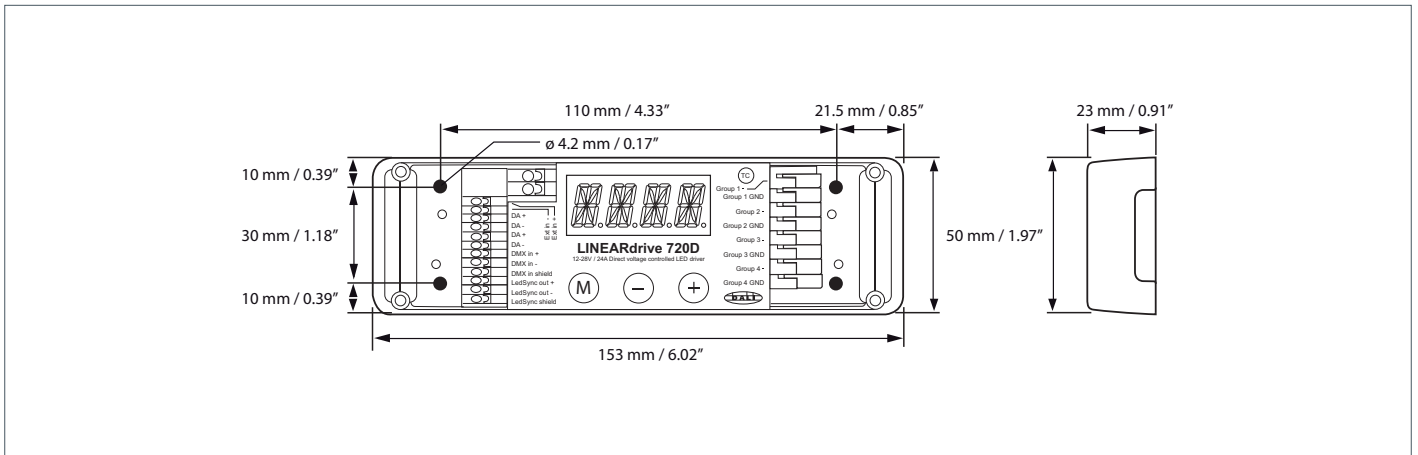
## Power Supply Mechanical Specification



### Terminal Pin No. Assignment :

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

## Controller dimensions, weight & packaging



### LINEARdrive 720D

- Weight: 144 g, 5.0 oz
- Packaging: 12 pcs/carton

#### Wiring

- Cross section: 0.5 - 1.5 mm<sup>2</sup>, AWG20 - 16
- Strip length: 9 mm / 0.35 in.,

#### Connectors LINEARdrive 720D

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

#### Certifications

- CE
- IEC 61347, EN 55015, IEC 61003, EN 61547
- UL: UL Recognized Component (file no. E333135)  
LINEARdrive 100D is Class 2 output.


#### Environmental ratings

- Ta range: -20°C...50°C / -4°F...122°F
- 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

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