



Powerbox 240 DM 1-10v

Enclosure with pre wired power supply with four fused 5amp (60watt) outlets. Dimmable by 1-10 volts

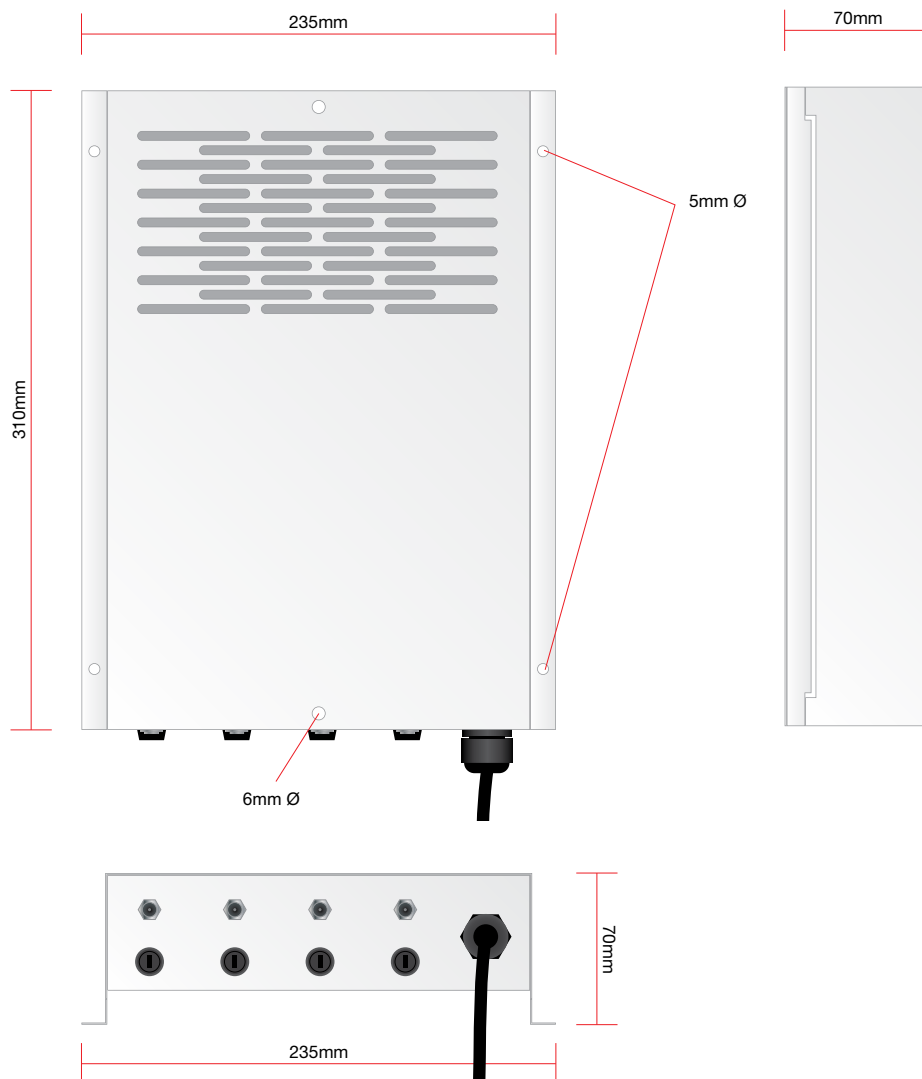
Technical Brochure

4 separate 5amp (60watts) fused outlets



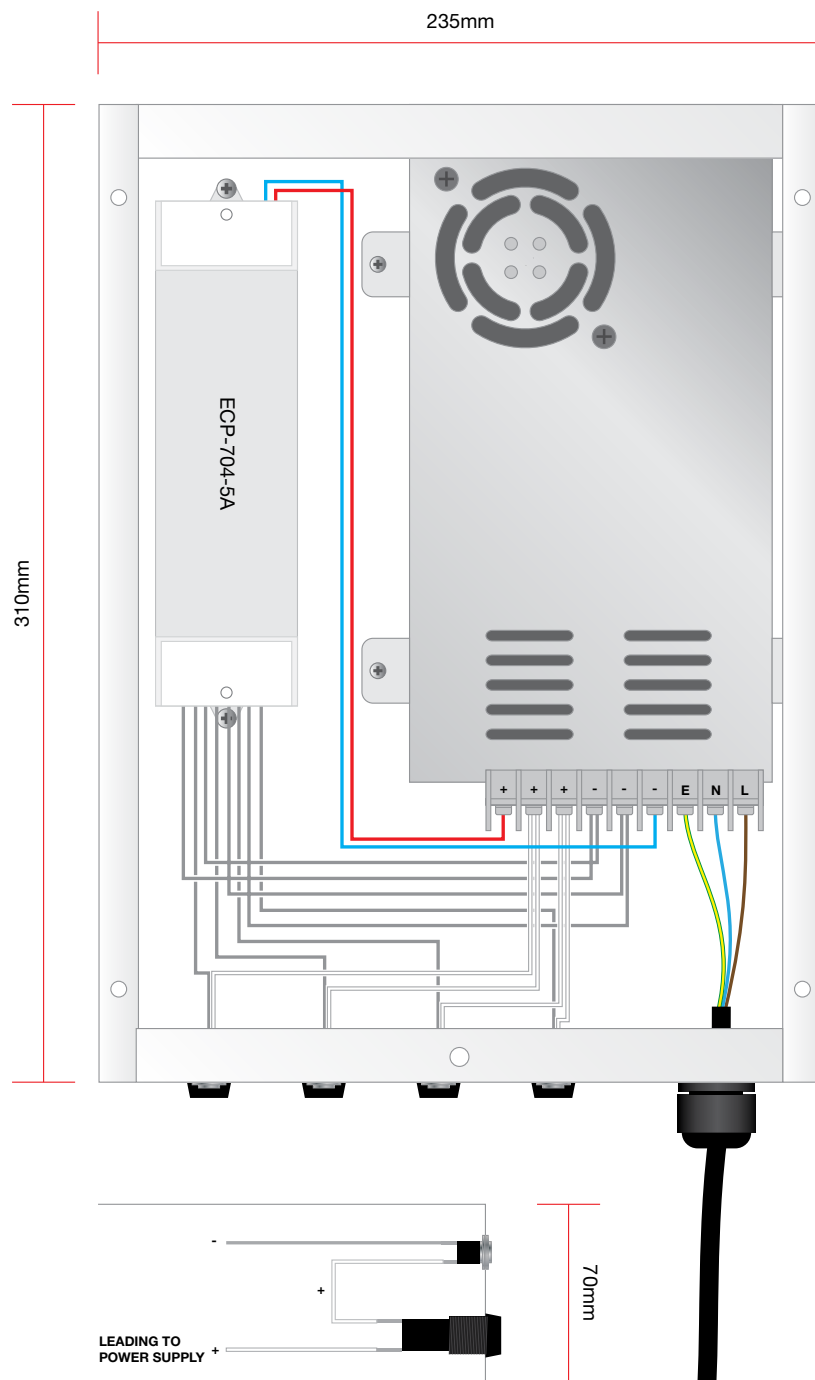
Powerbox 240 DM – 12

Enclosure with pre wired power supply with four fused 5amp (60watt) outlets. Dimmable by 1-10 volts. This means the panel can be dimmed from 100% down to 10%. If 0-10 volt dimming is required, a different controller must be used (211D of a powerbox set to DALI or DMX).



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
- Dimming control via 0-10 volt external source
- Vented enclosure 310(H) x 235(W) x 70(D)mm
- 3 year warranty

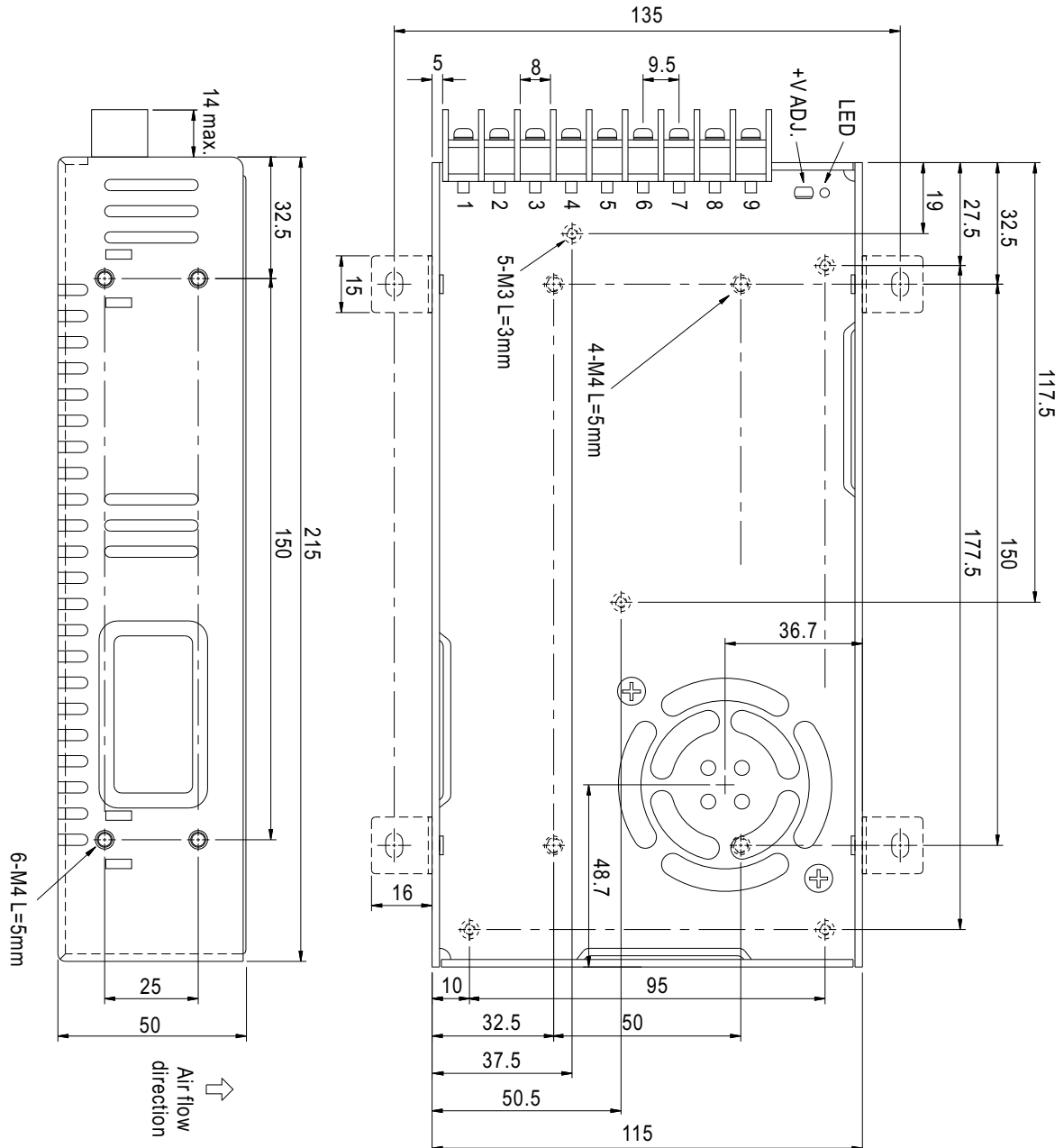


Power Supply Specification



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 & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 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 http://www.meanwell.com)</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>		

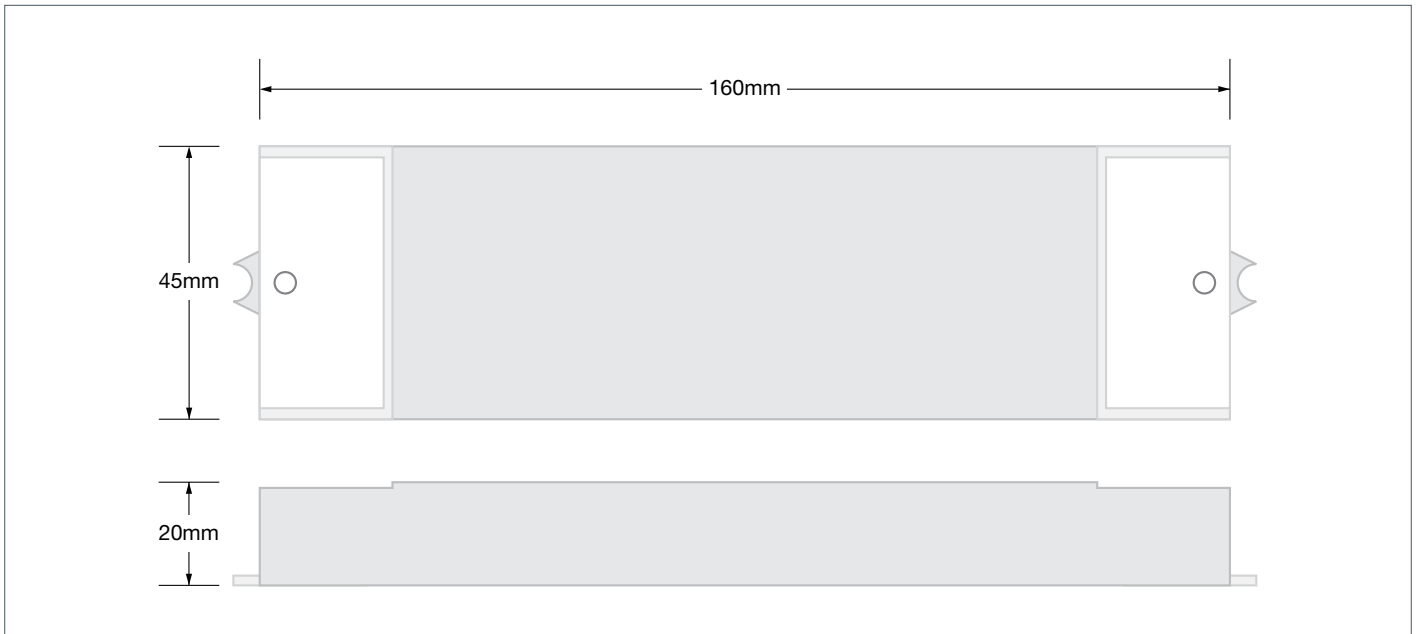
Power Supply Mechanical Specification



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		

ECP-704-5A Controller specification




Key Features

- 1-10V Dimmable
- The 4 channels work separately
- Up to 5A per channel
- Input range: 12-36V



Input voltage	12-36V
Max load current	4 x 5A
Max output power	4 x (60-180)W
Load type	Regular LED (0.04-0.1W)
Ta	-20°C+50°C
Tc	+75°C
Approval	CE/RoHS

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