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For more than 40 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

DLP-1305 Laboratory power supply

CE

Item no: 2619142

The power supply is used as a potential-free DC mains supply to operate low-voltage devices. It is connected via 4 mm safety sockets. The output voltage and current can be adjusted. The DC output is electrically isolated and features protective isolation towards the mains voltage.



FEATURES

Colour LCD display // 0 – 30 V/DC output voltage // 150 W output power // Low ripple/noise //
 Over voltage/Over current protection // Multi-directional cooling system with smart fan //
 RS232 digital communication support // SCPI and LabVIEW support

TECHNICAL DATA

		Parameter	Description
Input Parameter	Working Voltage Range	220 – 240 V/AC	
	Working Frequency Range	47 - 63 Hz	
Rated Output (0 to +40 °C)	Voltage	0 - 30 V/DC	
	Overvoltage Protection	31 V/DC	
	Current	0 – 5 A	
	Overcurrent Protection	5.1 A	
	Power	150 W	
Load Regulation (% of output + offset)	Voltage	$\leq 0.04 \% + 3 \text{ mV}$	0 - 100%
	Current	$\leq 0.04 \% + 3 \text{ mA}$	90 % - 10% Rated Voltage
Line Regulation (% of output + offset)	Voltage	$\leq 0.01 \% + 3 \text{ mV}$	198 – 264 Vac
	Current	$\leq 0.01 \% + 3 \text{ mA}$	198 - 264 Vac
Setting Resolution	Voltage	1 mV	
	Current	1 mA	
Readback Resolution	Voltage	1 mV	
	Current	1 mA	
Value Resolution (within 12 months) (25 °C ± 5 °C) (% of output + offset)	Voltage	$\leq 0.03 \% + 10 \text{ mV}$	
	Current	$\leq 0.1\% + 5 \text{ mA}$	
Readback Value Resolution (25 °C ± 5 °C) (% of output + offset)	Voltage	$\leq 0.03 \% + 10 \text{ mV}$	
	Current	$\leq 0.1 \% + 5 \text{ mA}$	
Ripple and Noise (20 Hz – 20 MHz)	Voltage (Vp-p)	$\leq 4 \text{ mVp-p}$	
	Voltage (rms)	$\leq 1 \text{ mVrms}$	
	Current (rms)	$\leq 4 \text{ mArms}$	
Output Temperature Coefficient (0 to +40 °C) (% of output + offset)	Voltage	$\leq 0.03 \% + 10 \text{ mV}$	Voltage and current compensation coefficients for operating temperatures outside the (25 °C ± 5 °C) range
	Current	$\leq 0.1 \% + 5 \text{ mA}$	
Readback Temperature Coefficient (% of output + offset)	Voltage	$\leq 0.03 \% + 10 \text{ mV}$	
	Current	$\leq 0.1 \% + 5 \text{ mA}$	
Transient Response Time	Time	$\leq 100 \text{ us}$	(50 – 100 % Rated Load)

Display

Item	Description
Display type	10 cm (3.95") colour LCD
Resolution	480 x 320 pixels
Colour	65536 colour, TFT

Power

Item	Description
Power voltage	220 – 240 V/AC; 50/60 Hz
Fuse	220 V (250 V, F3A)

Environment

Item	Value
Working Temperature	0 to +40 °C
Storage Temperature	-20 to +60 °C
Relative humidity	≤90 %
Altitude	3,000 m (operating) 15,000 m (not operating)
Cooling	Fan cooling

Others

Item	Value
Dimensions (L x W x H)	290 x 117 x 194 mm
Weight	approx. 6 kg

CONTENTS

Power supply // Mains cable // RS232 cable // Fuse // CD ROM // Safety instructions // Operating instructions

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