

VOLTCRAFT - TOP PERFORMANCE IN EVERY WAY

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.

DSP-3010 Laboratory power supply

CE

Item no: 2446363

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 // 1-channel output // Low ripple/noise // Over voltage/Over current protection // USB 2.0 interface

TECHNICAL DATA

Input

Item	Value
Input Voltage	200 - 240 V/AC
Input Frequency	50/60 Hz
Input active power	300 W
Input maximum apparent power	max. 800 VA
Full Load Input Current	≤2.8 A
No-Load Input Current	≤150 mA
Input Fuse	250V, F5A

Output

Item	Value
Voltage	0 - 30 V
Current	0 - 10 A
Max output power	300 W
Efficiency (rated load)	85 %

Regulation (CV)

Item	Value
Load	≤30 mV
Line	≤20 mV

Regulation (CC)

Item	Value
Load	≤30 mV
Line	≤20 mV

Ripple and Noise

Item	Value
Voltage (Vp-p)	≤30 mV
Voltage (rms)	≤3 mV
Current (Ap-p)	≤30 mA

Setting Resolution

Item	Value
Voltage	10 mV
Current	1 mA

Readback Resolution

Item	Value
Voltage	10 mV
Current	1 mA

Setting Accuracy

Item	Value
Voltage	≤0.1 % ± 20 mV
Current	≤0.1 % ± 10 mA

Readback Accuracy

Item	Value
Voltage	≤0.1 % ± 20 mV
Current	≤0.1 % ± 10 mA

Response time

Item	Value
Transient recovery time (50 - 100 % rated load)	≤1 ms

Protective function

Item	Value
OVP	0 - 31 V
OCP	0 - 10.1 A
OTP	85 °C

Temperature coefficient (output)

Item	Value
Voltage	100 ppm/°C
Current	200 ppm/°C

Temperature coefficient (readback)

Item	Value
Voltage	100 ppm/°C
Current	200 ppm/°C

Display

Item	Value
Display Type	7.1 cm (2.8") colour LCD
Resolution	240 x 320 pixels
Colour	65536 colour, TFT

Environment

Item	Value
Working temperature	0 to +40 °C
Storage temperature	-20 to +60 °C
Relative Humidity	≤90 % RH (non-condensing)
Altitude	2,000 m
Cooling	Fan cooling, temperature intelligent speed control

Others

Item	Value
Communication Port	USB communication, compatible with SCPI communication protocol
USB Charging Port	5 V/DC, 1 A
Dimension (W x H x D)	226 x 142 x 82 mm
Weight (approx.)	1.5 kg

CONTENTS

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

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