VOLTCRAFT

VOLTCRAFT - RELIABLE AND PRECISE. SINCE 1982.

For decades, 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.

ESP-310

ESP SERIES SINGLE OUTPUT DC POWER SUPPLY

CE

Item no. 3760665



The product is a single-output DC power supply. It provides a rated output of up to 30V, 10A, and 300W, monitored via LED display. Additionally, it features built-in overvoltage, overcurrent, and over-temperature protection, along with a memory function that allows users to save and quickly recall up to three groups of preset voltage and current parameters.

PACKAGE CONTENTS

Product // Power Cable

TECHNICAL DATA

Input characteristics	
Supply Voltage	198V-240 V/AC
Input Frequency	50/60 Hz
Input Fuse	250V, F5A

Rated Output	
Voltage	0~30V
Current	0~10A
Power	300W

Regulation (CV)	
Load	0.1%±3mV
Line	0.1%±3mV
Ripple & Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in parallel with 0.1uF ceramic capacitor to the output terminal for testing)	
Voltage (Vp-p)	0.3%Vp-p
Current (Arms)	0.3%Irms

Setting resolution	
Voltage	10mV
Current	1mA
Readback resolution	
Voltage	10mV
Current	1mA
Setting accuracy	
Voltage	≤0.2%±0.2%FS
Current	≤0.2%±0.2%FS
Readback accuracy	
Voltage	≤0.2%±0.2%FS
Current	≤0.2%±0.2%FS
Response time	
Transient recovery time (10%~90% rated load)	≤5.0ms
Protective function	
OVP	0~31V
OCP	0~11A
OTP	85 °C
Temperature coefficient of output	
Voltage	100ppm/°C
Current	200ppm/°C
Temperature coefficient of readback value	
Voltage	100ppm/°C
Current	200ppm/°C
Display	
Display Type	3 x 4bit LED
Environment	
Working Temperature:	0 to +40 °C
Storage Temperature:	-20 to +60 °C
Relative Humidity	≤90%RH; no condensation
Height	2,000 meters
Cooling	Fan cooling, temperature intelligent speed control
Others	
Dimension (W x H x D)	82× 142 ×226 mm
Weight	Approx. 1.5kg

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