

VOLTCRAFT

VOLTCRAFT - RELIABLE AND PRECISE. SINCE 1982.

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.

ELECTRONIC LOAD

Item no. 3364227 // EL-1400 (150 V/DC 40 A, 400 W)

Item no. 3364228 // EL-1200 (150 V/DC 20 A, 200 W)

Item no. 3451222 // EL-2200 (600 V/DC 20 A, 200 W)

Item no. 3451223 // EL-2400 (600 V/DC 40 A, 400 W)

The product is a programmable electronic load. It is primarily designed for applications such as fast chargers, battery discharge, and power supply testing, and other product performance validation tests.



TECHNICAL DATA

Model		EL-1400		EL-1200		EL-2400		EL-2200	
	Unit	Specification							
Input voltage range	V	0-150		0-150		0-600		0-600	
Input current range	A	0-40		0-20		0-40		0-20	
Input power range	W	400		200		400		200	
Minimum voltage	V	1.1V@40A		0.8V@20A		1.1V@40A		0.8V@20A	

Constant voltage mode

Range	V	0-150		0-150		0-600		0-600	
Resolution	mV	1		1		1		1	
Accuracy		0.05%+0.05%FS		0.05%+0.05%FS		0.05%+0.05%FS		0.05%+0.05%FS	

Constant current mode

Range	A	0-40		0-20		0-40		0-20	
Resolution	mA	1		1		1		1	
Accuracy		0.03%+0.03%FS		0.03%+0.03%FS		0.03%+0.03%FS		0.03%+0.03%FS	

Constant resistance mode

Range	Ω	0.05-7.5k		0.05-7.5k		0.05-7.5k		0.05-7.5k	
Accuracy *1		0.1%+0.01%R		0.1%+0.01%R		0.1%+0.01%R		0.1%+0.01%R	

Constant power mode

Range	W	400		200		400		200	
Resolution	mW	10		10		10		10	
Accuracy *1		0.1%+0.1%FS		0.1%+0.1%FS		0.1%+0.1%FS		0.1%+0.1%FS	

Dynamic mode

T1&T2		0.1ms-50s		0.1ms-50s		0.1ms-50s		0.1ms-50s	
Rise/Fall slope		0.01A/ms-2000A/ms		0.01A/ms-2000A/ms		0.01A/ms-2000A/ms		0.01A/ms-2000A/ms	
Minimum rise time	us	20us		20us		20us		20us	

Voltage readback value

Range	V	0-15	0-150	0-15	0-150	0-60V	0-600V	0-60V	0-600V
Resolution	mV	1		1		1		1	
Accuracy		0.03%+ 7.5mV	0.03%+ 0.025%FS	0.03%+ 7.5mV	0.03%+ 0.025%FS	0.03%+ 7.5mV	0.03%+ 0.025%FS	0.03%+ 7.5mV	0.03%+ 0.025%FS

Current readback value

Range	A	0-40		0-20		0-40		0-20	
Resolution	mA	0.1		0.1		0.1		0.1	
Accuracy		0.03%+0.03%FS		0.03%+0.03%FS		0.03%+0.03%FS		0.03%+0.03%FS	

Power readback value

Range	W	0-400		0-200		0-400		0-200	
Resolution	mW	10		10		10		10	

Accuracy		0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS
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Protection function

OPP	W	>OPP value 10ms protection	>OPP value 10ms protection	>OPP value 10ms protection	>OPP value 10ms protection
OVP	V	>OVP value 0.1ms protection	>OVP value 0.1ms protection	>OVP value 0.1ms protection	>OVP value 0.1ms protection
OCP	V	>OCP value 0.1ms protection	>OCP value 0.1ms protection	>OCP value 0.1ms protection	>OCP value 0.1ms protection
Overtemperature protection		85 °C			

Short circuit

Current (CC)	A	>40	>20	>40	>20
Voltage (CV)	V	0	0	0	0
Resistance (CR)	mΩ	50	50	50	50

AC parameter

Voltage range	V	230 V/AC
Frequency range	Hz	50/60Hz

Interface

RS-232	Supported SCPI
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General

Heat dissipation	Internal intelligent fan forced air cooling				
Safety	Compliant with the European EMC Directive 89/336/EEC, for Class A test and measurement products				
Withstand voltage (Output to Ground)	500V/DC/1mA				
Withstand voltage (Input to Ground)	1.5KV/AC/5mA				
Volume (L*W*H)	375 x 215 x 88 mm				
Net weight (kg)		5	4.2	5	4.2

* 1 Accuracy: The voltage and current input values should not be less than 10%FS
Interval Period of Adjustment: One year is recommended for the calibration interval period.

PACKAGE CONTENTS

Electronic load // Mains cable // USB cable // Operating instructions // Safety sheet