



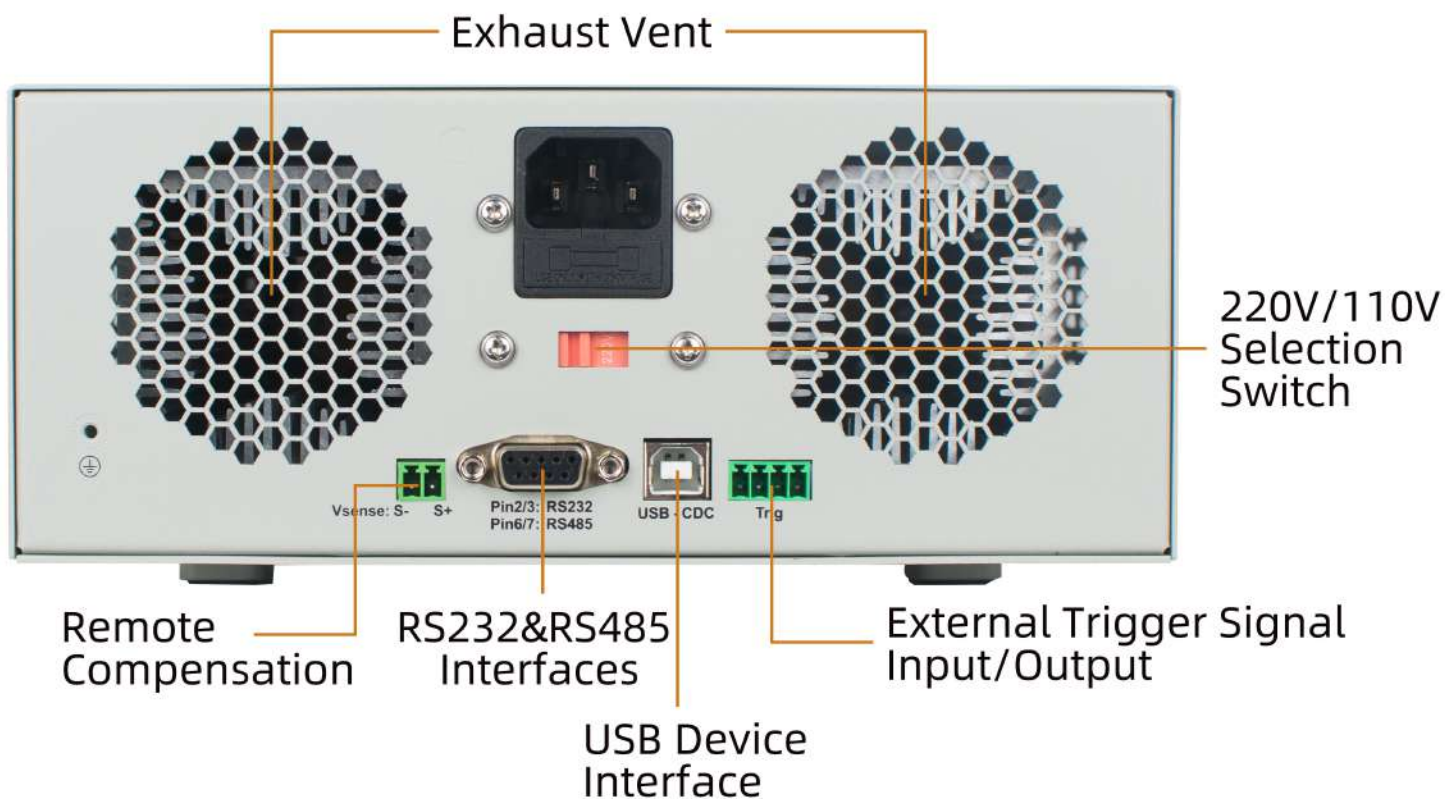
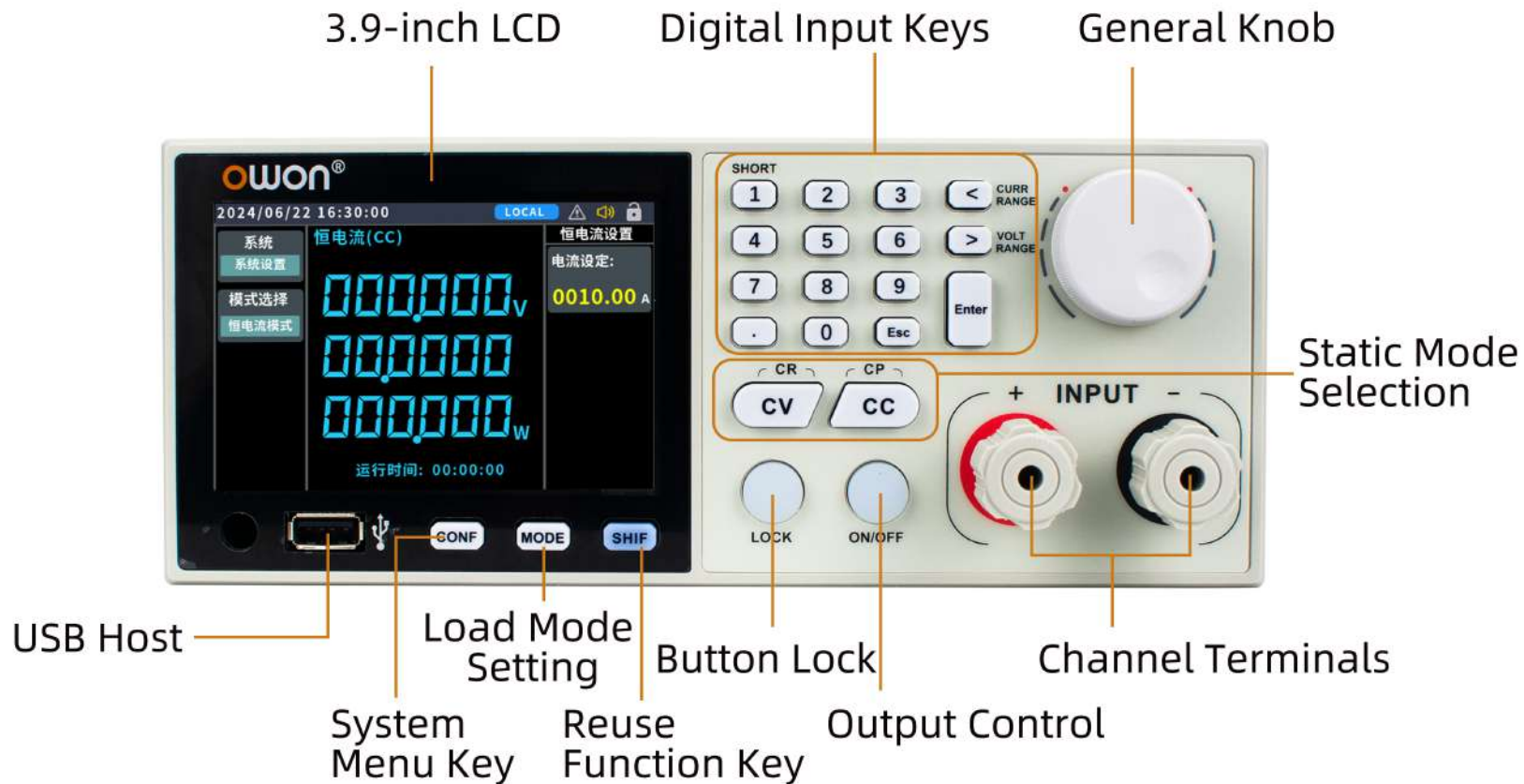
OEL8500 Series DC Electronic Load

OEL8512 Series: DC 150V/300V/600V, 40A, total power up to 400W

OEL8511 Series: DC 150V/300V/600V, 20A, total power up to 200W

- ◆ Dynamic mode: up to 5kHz
- ◆ Readback resolution: 1 mV/0.1 mA
- ◆ Overvoltage/Overcurrent/Overpower/Overtemperature/Reverse Voltage protection
- ◆ 4 static modes: CC, CV, CR, CP
- ◆ Supports CC dynamic mode and short-circuit simulation
- ◆ Adjustable current rise time range: 0.001A/ μ s~2A/ μ s
- ◆ Supports multi-unit parallel operation (except CV mode), Communicates via RS485, and can be expanded to 10 units for a total of 4kW
- ◆ Built-in RS232 and USB Device interfaces, supporting SCPI protocol and host computer communication
- ◆ 1/2 2U, standard rack mount size
- ◆ 3.9-inch TFT LCD display

Design Features



Product Features

+ 5kHz dynamic mode

The dynamic testing function allows the load to switch between two preset parameter values (Level A and Level B) according to defined rules. This feature is used to test the dynamic characteristics of the device under test and can simulate high-speed current changes, with a maximum frequency setting of up to 5kHz.



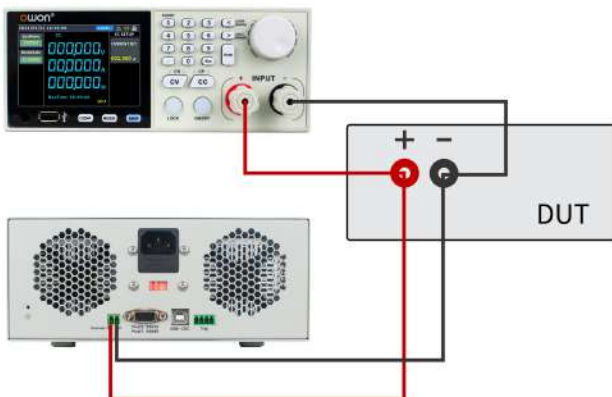
+ Comprehensive Multi-Level Protection

The load protection features include overcurrent protection (OCP), overvoltage protection (OVP), overpower protection (OPP), overtemperature protection (OTP), and input polarity reversal protection (LRV/RRV).



+ Remote Compensation Mode

In CC/CV/CR/CP mode, when a load is connected to a power supply, it will cause a large voltage-drop on the connection lines between tested instrument and terminals of load. Using remote sense, you can measure the voltage at the DUTs input terminals, effectively removing the additional error due to the voltage drop in the connection wires.



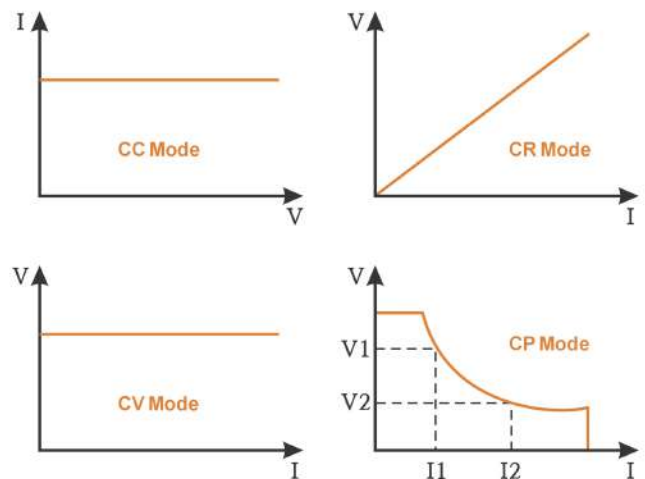
+ Adjustable Current Rise Time: 2A/μs

Current rising speed is defined as the speed of transition from one setting to another. You can set the actual transition time from one setting to another by changing the current rising speed. Adjustable current rising speed: 0.001A/μs to 2A/μs.



+ Static Mode

The electronic load features four static modes: Constant Voltage (CV), Constant Current (CC), Constant Resistance (CR), and Constant Power (CP).



+ Parallel Operation Mode

Supports parallel operation of multiple units (except in CV mode). Users can connect up to 10 loads via the RS485 communication interface, expanding the total power capacity to a maximum of 4kW and achieving a maximum current of 400A.



+ Specifications

The following test specification parameters require the instrument to operate continuously for more than 30 minutes under the specified temperature conditions.

Model		OEL8512	OEL8512B	OEL8512C	OEL8511	OEL8511B	OEL8511C
Rated input	Voltage	0 - 150V	0 - 300V	0 - 600V	0 - 150V	0 - 300V	0 - 600V
	Current	0 - 40A			0 - 20A		
	Power	400W			200W		
Minimum Operate Voltage		1.1V@40A			0.8V@20A		
Range (CV)		0 - 150V	0 - 300V	0 - 600V	0 - 150V	0 - 300V	0 - 600V
Resolution CV)		1mV			1mV		
Range (CC)		0 - 40A			0 - 20A		
Resolution (CC)		1mA			1mA		
Range (CR)		0.05Ω - 7.5kΩ			0.05Ω - 7.5kΩ		
Range (CP)		400W			400W		
Resolution (CP)		10mW			10mW		
Dynamic Mode							
T1&T2		0.1ms - 50s			0.1ms - 50s		
Rise/Fall Slope		0.01A/ms - 2000A/ms			0.01A/ms - 2000A/ms		
Minimum Rise Time		20us			20us		
Readback Range (V)		0 - 150V	0 - 300V	0 - 600V	0 - 150V	0 - 300V	0 - 600V
Readback Resolution (V)		1mV					
Readback Range (A)		0 - 40A			0 - 20A		
Readback Resolution (A)		0.1mA			0.1mA		
Readback Range (w)		0 - 400W			0 - 200W		
Readback Resolution (w)		10mW			10mW		
Protection		Overpower Protection, Overvoltage Protection, Overcurrent Protection, Overtemperature					
Short		CC mode, CV mode, CR mode					
Interface		RS-232 support SCPI					
Safety		Complies with European EMC Directive 89/336/EEC for Class A testing and measurement products					
Withstand Voltage		500V/DC, 1mA (output to ground); 1.5kVAC, 5mA (input to ground)					
Dimension (W/H/D)		215 x 88 x 375 mm					
Weight (KG)		5			4.2		

Specifications subject to change without notice.

+ Accessories

The accessories subject to final delivery.



Power Cord



User Manual



Fuse



RS232
Com Cable
(optional)



Handle
(optional)



Parallel Module
(optional)



Test Leads
(20A)
(optional)