



OEL85 Series DC Electronic Load

- 1/2 2U standard rack size, suitable for rack-mount use
- 3.9-inch TFT color LCD display
- Measurement range: 0-600V/0-40A, 200W/400W
- Four operation modes supports: constant voltage, constant current, constant resistance, constant power
- Dynamic current testing supports, with dynamics up to 5kHz
- High-resolution voltage and current readback: 1mV/0.1mA
- Remote compensation supports
- Multiple protections: overvoltage, overcurrent, overpower, overheat, etc.
- Standard RS232 interface, supports SCPI protocol



+ Technical 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 Output	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			
Constant Voltage Mode							
Range	0-150V	0-300V	0-600V	0-150V	0-300V	0-600V	
Resolution	1mV			1mV			
Accuracy	0.05%+0.05%FS			0.05%+0.05%FS			
Constant Current Mode							
Range	0-40A			0-20A			
Resolution	1mA			1mA			
Accuracy	0.03%+0.03%FS			0.03%+0.03%FS			
Constant Resistance Mode							
Range	0.05Ω - 7.5kΩ			0.05Ω - 7.5kΩ			
Accuracy *1	0.1%+0.01%R			0.1%+0.01%R			
Constant Power Mode							
Range	400W			200W			
Resolution	10mW			10mW			
Accuracy *1	0.1%+0.1%FS			0.1%+0.1%FS			
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			



Model	OEL8512		OEL8512B		OEL8512C	
Voltage Readback						
Range	0-15V	0-150V	0-30V	0-300V	0-60V	0-600V
Resolution	1mV					
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
Model	OEL8511		OEL8511B		OEL8511C	

Voltage Readback						
Range	0-15V	0-150V	0-30V	0-300V	0-60V	0-600V
Resolution	1mV					
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

Model	OEL8512	OEL8512B	OEL8512C	OEL8511	OEL8511B	OEL8511C
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Current Readback						
Range	0-40A			0-20A		
Resolution	0.1mA			0.1mA		
Accuracy	0.03%+0.03%FS			0.03%+0.03%FS		

Power Readback						
Range	0-400W			0-200W		
Resolution	10mW			10mW		
Accuracy	0.1%+0.1%FS			0.1%+0.1%FS		

Protection						
Overpower Protection	>OPP, 10ms delay protect					
Overvoltage Protection	>OVP, 0.1ms delay protect					
Overcurrent Protection	>OCP, 0.1ms delay protect					
Overtemperature	85°C					

Short						
CC mode	>40A			>20A		
CV mode	0V			0V		
CR mode	50mΩ			50mΩ		

General						
Interface	RS-232 SCPI support					
Heat dissipation	Internal intelligent fan with forced air cooling					
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)					
Input power	110V ±10% or 220V ±10%;50Hz/60Hz					
Dimension (LWH)	375mm*215mm*88mm					
Weight(kg)	4			2		