

OWH6546 Series

High-Voltage High-Power Programmable DC Power Supply



Key Features

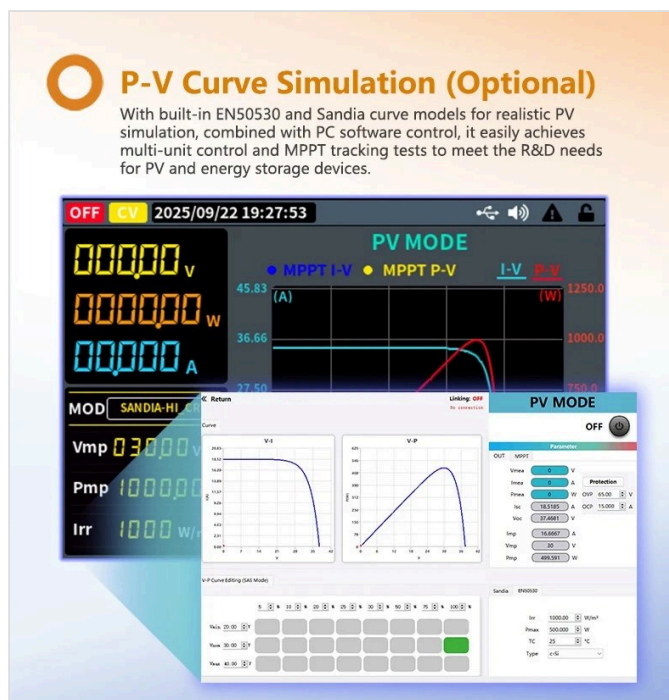
- 6U standard rack-mount design, fully compatible with 19-inch racks
- 0.05% ultra-high precision control for long-term stability and low thermal drift
- 10mV / 1mA setting and readback resolution
- Selectable CV/CC priority mode to flexibly adapt to different load characteristics
- Supports up to 100-step LIST sequence programming and PC remote control
- Built-in P-V curve simulation to accurately simulate solar panel I-V characteristics
- Fully digital control with integrated OVP, OCP and OPP protections
- Standard USB CDC, RS485 and Ethernet interfaces; SCPI compatible
- 3.9-inch TFT color display for real-time viewing of dynamic waveforms

Features



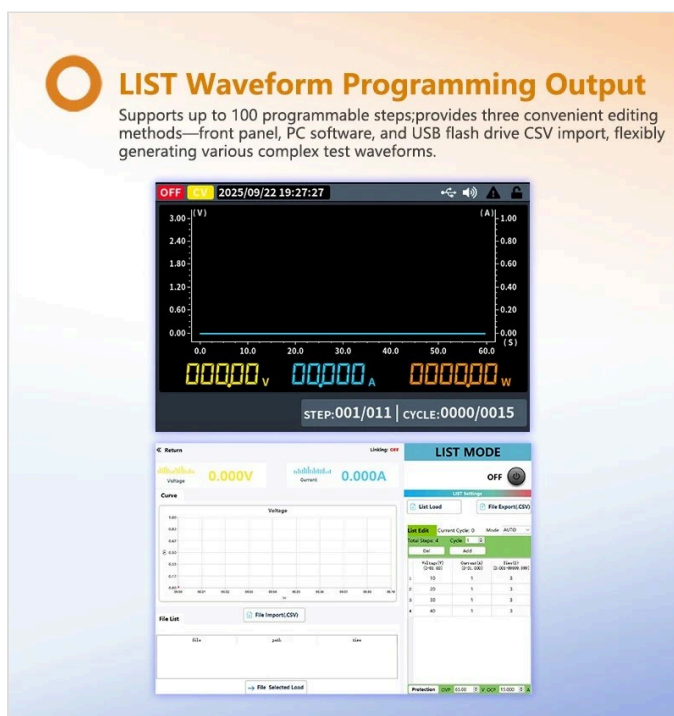
Precise Control · Powerful Output

Wide-range output with high-precision voltage/current control, long-term stability, high reliability and low thermal drift; setting accuracy up to 0.05%.



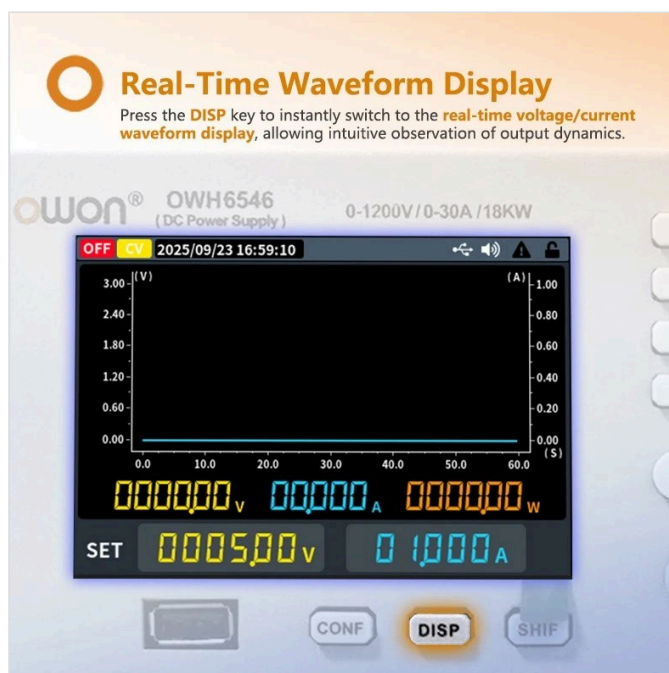
P-V Curve Simulation (Optional)

Built-in EN50530 and Sandia curve models for realistic PV simulation; with PC software, multi-unit control and MPPT tracking tests.



LIST Waveform Programming Output

Up to 100 programmable steps; editing via front panel, PC software or USB flash drive CSV import.



Real-Time Waveform Display

Press the DISP key to switch to the real-time voltage/current waveform display.



PC Software Programming Output

USB Device, RS485 and LAN interfaces; remote monitoring, parameter configuration and data logging.



Precise Control, Comprehensive Protection

OVP / OCP / OPP, SCPI/MODBUS remote setup, file management, CC/CV priority selectable.

Product Dimensions



Main Specifications

The instrument must be operated continuously for more than 30 minutes at the specified operating temperature to achieve the following specifications.

Model		OWH6546	OWH6546A
Channel		1	
Rated output (0°C-40°C)	Voltage	0-1200V	0-1200V
	Current	0-30A	0-20A
Power		18kW	12kW
Input power		3P4W, 380Vac $\pm 10\%$; 45Hz-65Hz (L1/L2/L3-N)	
Load regulation	CV	$\leq 300\text{mV}$	
	CC	$\leq 15\text{mA}$	$\leq 45\text{mA}$
Input power regulation	CV	$\leq 300\text{mV}$	
	CC	$\leq 15\text{mA}$	$\leq 45\text{mA}$
Setting resolution		10mV/1mA	
Readback resolution		10mV/1mA	
Setting accuracy	Voltage	$\leq 0.05\% \pm 500\text{mV}$	
	Current	$\leq 0.1\% \pm 30\text{mA}$	$\leq 0.1\% \pm 90\text{mA}$
Readback accuracy	Voltage	$\leq 0.05\% \pm 500\text{mV}$	
	Current	$\leq 0.1\% \pm 30\text{mA}$	$\leq 0.1\% \pm 90\text{mA}$
Ripple noise	Voltage	$\leq 2\text{Vp-p}$	
	Current	$\leq 150\text{mA}_{\text{rms}}$	$\leq 300\text{mA}_{\text{rms}}$
Output temp drift coefficient (0°C-40°C)		100ppm/°C (Voltage); 200ppm/°C (Current)	
Readback temp drift		100ppm/°C (Voltage); 200ppm/°C (Current)	
Transient response (10%-90% rated load)		$\leq 5.0\text{ms}$	
Working temperature		0-40°C	
Display		3.9-inch TFT LCD screen	
Interface		USB, LAN, RS485	
Dimension (W*H*D)		428 × 274.4 × 511 mm	
Weight		30kg	

Specifications subject to change without prior notice.