



Introduction

The UPL series are high power output Switching DC power supply with rated power from 600W to 15KW. The UPL series adopts ZVZCS PWM technology, which greatly reduces switching consumption and therefore facilitates switching function with high efficiency and high stability.

The UPL series are built into a 2U/3U 19-inch standard chassis. The maximum rated voltage is from 6V to 1000V and the maximum rated current is from 2A to 1000A. RS232 and RS485 communication interfaces are made as standard part for UPL series, providing multiple communication choices for digital control.

Features

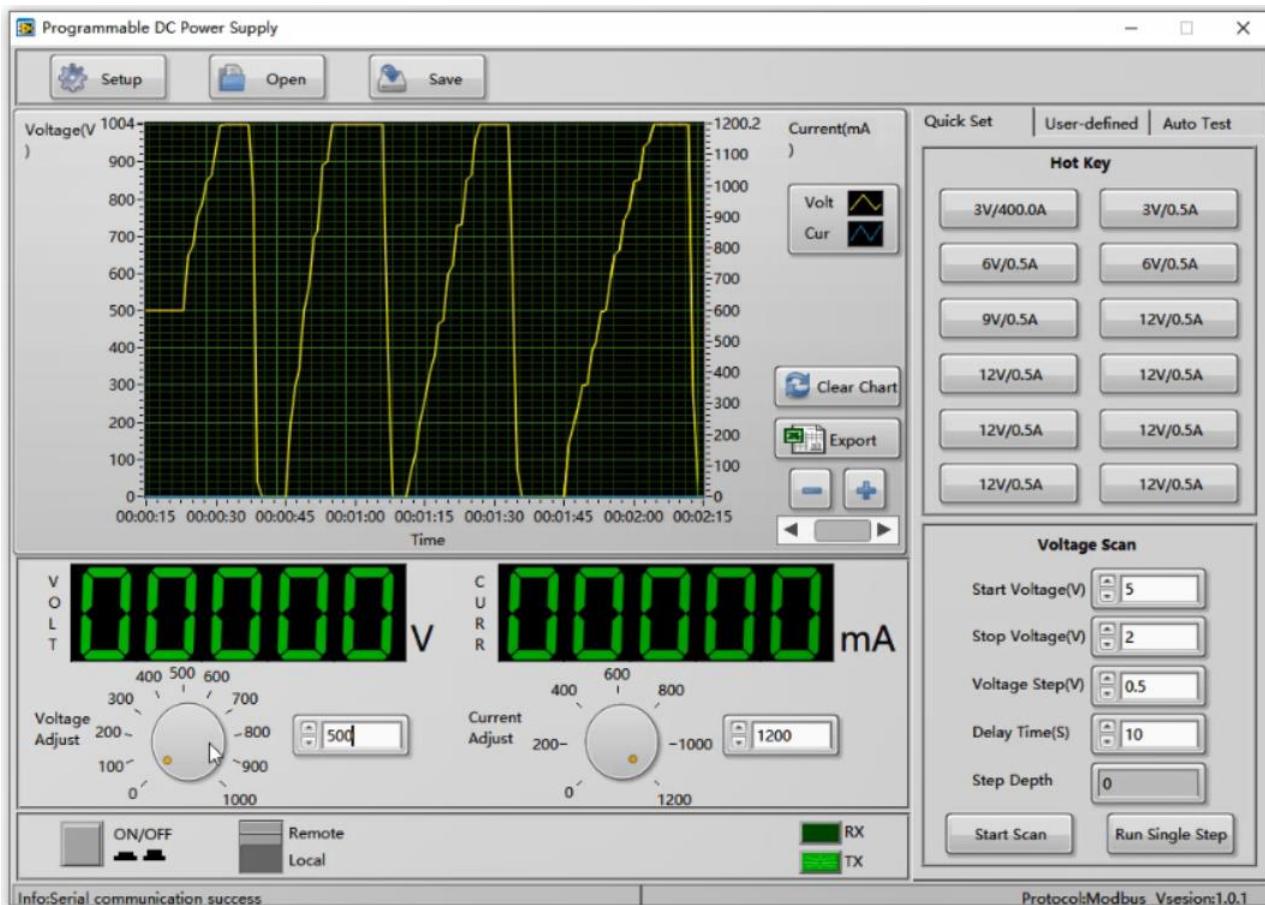
- ✓ Adopting ZVZCS PWM technology, high efficiency and high stability
- ✓ 4 1/2 digits LED display for voltage and current
- ✓ Max.rated output 600W to 15KW
- ✓ Max.rated voltage from 6V to 1000V
- ✓ Max.rated current from 2A to 1000A
- ✓ Thermostatic control fan, low noise
- ✓ Low ripple, high stability
- ✓ No overshoot during startup
- ✓ List mode function, Auto Run function
- ✓ Remote sensing function
- ✓ **Adjustable voltage rise time**
- ✓ Preset function, setting of voltage and current with output open circuit
- ✓ Multiple protections: OVP, OTP, UVP and current limit protections
- ✓ Multiple programming interfaces: RS232 & RS485, ModBus-RTU commands
- ✓ Optional function: 0-5V, 0-10V or 4-20mA analog control and feedback for voltage and current

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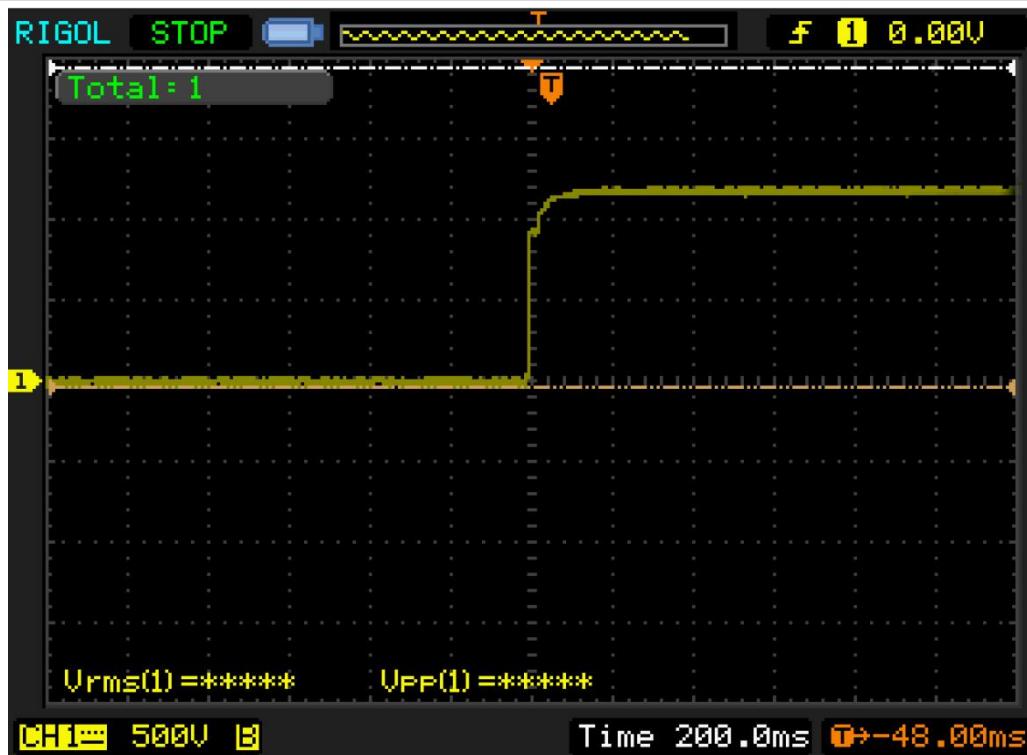


Free PC Software

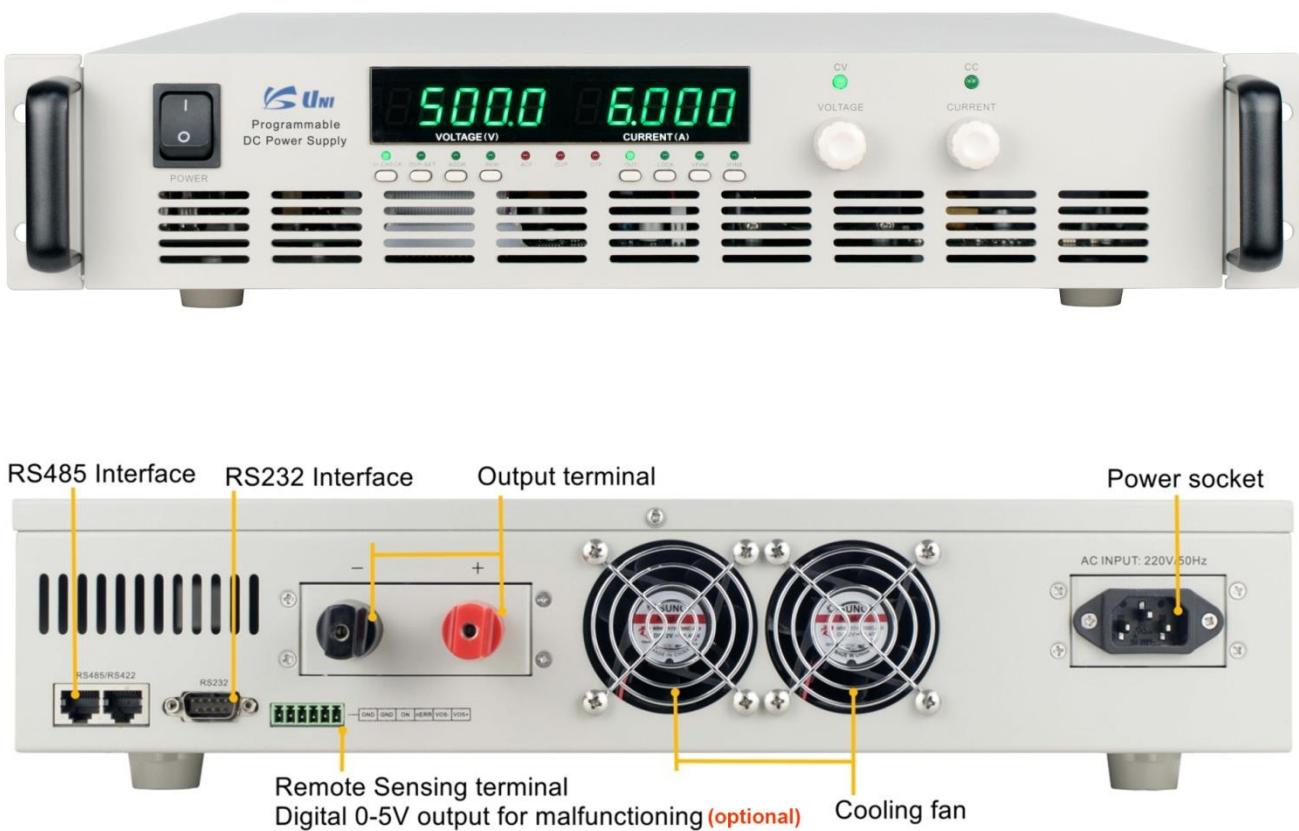
Multiple remote control and sampling functions. Such as: voltage & current setup, voltage & current feedback, data recording, export data to EXCEL, List mode function, auto run function. **Adjustable voltage rise time.**



No overshoot



Panel Descriptions (2U frame)



Product Photos (1/2 2U frame for 600W~1200W)



Product Photos (2U frame for 1.2kW~5kW)



(220Vac input for 2.4kW~3kW)



(380Vac input for 4kW~5kW)

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Product Photos (3U frame for 6kW~9kW)



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Specifications

Output		
Rated Voltage		DC 0~100% full range adjustable
Rated Current		DC 0~100% full range adjustable
OVP Range		DC 0~105% of rated voltage adjustable
Line Regulation		CV≤0.1%+2LSB, CC≤0.2%+2LSB
Load Regulation		CV≤0.1%+2LSB, CC≤0.1%+2LSB
Ripple & Noise		≤50mV / 100mV / 200mV
Programming		
Programming	Voltage	0.001V / 0.01V/ 0.1V
Resolution	Current	0.001A / 0.01A/ 0.1A
	OVP	0.001V / 0.01V/ 0.1V
Interface		RS232 and RS485
Commands		ModBus-RTU
Display		
Meter		4 1/2 digits LED display for voltage and current
Display	Voltage	0.001V / 0.01V/ 0.1V
Resolution	Current	0.001A / 0.01A/ 0.1A
Display	Voltage	≤0.2%FS+2LSB
Accuracy	Current	≤0.5%FS+2LSB
Protection		
Over Voltage Protection (O.V.P.)		Built-in OVP protection with limit of 105% rated output voltage. The output will be shut down when OVP is activated.
Over Temperature Protection (O.T.P.)		Built-in OTP protection with heat sink temperature limit of 105°C±5°C. The output will be shut down when OTP is activated.
Under Voltage Protection (U.V.P.)		Built-in UVP protection with limit of 165Vac. The output will be shut down when UVP is activated.
General		
Cooling method		Cooling fan
Operating environment		0°C~40°C, 10%~80%RH
Storage environment		-20°C~70°C, 10%~90%RH

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Model (1200W)	Rated Output			Voltage Ripple	Programming Resolution			Display Resolution	
	V	A	OVP		V	A	OVP	V	A
UPL1200-6^①	0~6V	0~200A	0~6.3V	≤50mV	0.001V	0.1A	0.001V	0.001V	0.1A
UPL1200-12^①	0~12V	0~100A	0~12.6V	≤50mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL1200-15	0~15V	0~80A	0~15.75V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1200-20	0~20V	0~60A	0~21V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1200-30	0~30V	0~40A	0~31.5V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1200-60	0~60V	0~20A	0~63V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1200-1H	0~100V	0~12A	0~105V	≤100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL1200-120	0~120V	0~10A	0~126V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.01A
UPL1200-150	0~150V	0~8A	0~157.5V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1200-2H	0~200V	0~6A	0~210V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1200-3H	0~300V	0~4A	0~315V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1200-4H	0~400V	0~3A	0~420V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1200-5H	0~500V	0~2.4A	0~525V	≤200mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1200-6H	0~600V	0~2A	0~630V	≤200mV	0.1V	0.001A	0.1V	0.1V	0.001A
Dimensions	Current <100A: 425Wx88Hx463D mm (2U)								
	Current ≥100A: 425Wx88Hx503D mm (2U-L)								
Weight	Approx 11kg								
AC Input	1φ3W (L, N, PE), 220V±10% 47~63Hz								

Remarks①: Load Regulation: CV≤0.21%+2LSB

Model (1500W)	Rated Output			Voltage Ripple	Programming Resolution			Display Resolution	
	V	A	OVP		V	A	OVP	V	A
UPL1500-12^①	0~12V	0~125A	0~12.6V	≤50mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL1500-15	0~15V	0~100A	0~15.75V	≤50mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL1500-20	0~20V	0~75A	0~21V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1500-30	0~30V	0~50A	0~31.5V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1500-60	0~60V	0~25A	0~63V	≤50mV	0.01V	0.01A	0.01V	0.01V	0.01A
UPL1500-1H	0~100V	0~15A	0~105V	≤100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL1500-150	0~150V	0~10A	0~157.5V	≤100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL1500-2H	0~200V	0~7.5A	0~210V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1500-3H	0~300V	0~5A	0~315V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1500-4H	0~400V	0~3.75A	0~420V	≤100mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1500-5H	0~500V	0~3A	0~525V	≤200mV	0.1V	0.001A	0.1V	0.1V	0.001A
UPL1500-6H	0~600V	0~2.5A	0~630V	≤200mV	0.1V	0.001A	0.1V	0.1V	0.001A
Dimensions	Current <100A: 425Wx88Hx463D mm (2U)								
	Current ≥100A: 425Wx88Hx503D mm (2U-L)								
Weight	Approx 11.5kg								
AC Input	1φ3W (L, N, PE), 220V±10% 47~63Hz								

Remarks①: Load Regulation: CV≤0.21%+2LSB

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Model (9000W)	Rated Output			Voltage Ripple	Programming Resolution			Display Resolution	
	V	A	OVP		V	A	OVP	V	A
UPL9000-40	0~40V	0~225A	0~42V	≤100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL9000-60	0~60V	0~150A	0~63V	≤100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL9000-90	0~90V	0~100A	0~94.5V	≤100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL9000-1H	0~100V	0~90A	0~105V	≤100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-120	0~120V	0~75A	0~126V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-150	0~150V	0~60A	0~157.5V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-2H	0~200V	0~45A	0~210V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-3H	0~300V	0~30A	0~315V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-4H	0~400V	0~22.5A	0~420V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-5H	0~500V	0~18A	0~525V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL9000-6H	0~600V	0~15A	0~630V	≤200mV	0.1V	0.01A	0.1V	0.1V	0.01A
Dimensions	482.6Wx132.5Hx533D mm (3U)								
Weight	Approx 25kg								
AC Input	3φ4W (L1, L2, L3, PE), 380V±10% 47~63Hz								

For the purpose of product improvement, specifications are subject to change without prior notice.