

UPL series

High Voltage DC Power Supply 3U 10-15kW



The UPL series programmable high power DC power supply is available with rated voltage 6V to 2000V in 1.2kW to 15kW power. The UPL series provides comprehensive customized solutions for rated power up to 300kW and rated current up to 10kA.

The UPL series adopts ZVZCS PWM technology, which greatly reduces switching consumption and therefore facilitates switching function with high efficiency and high stability.

RS232 and RS485 are built at default. LAN interface and analog interface are provided as an option, providing multiple communication choices for both digital control and analog control.

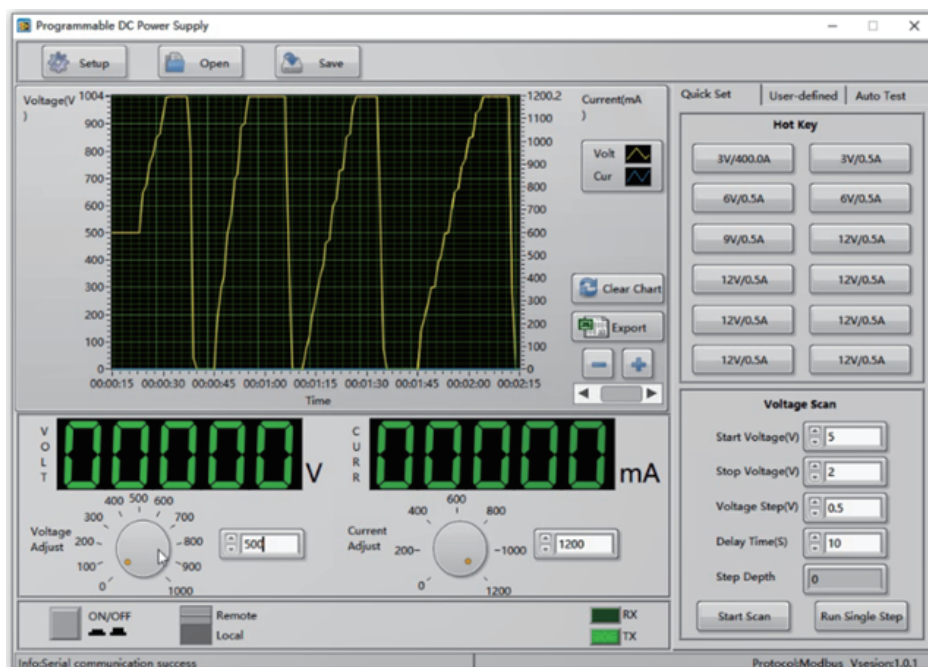
With rack mount design and multiple communications, the UPL series programmable high power DC power supply can be easily integrated into test systems as reliable DC voltage source and DC current source.

Features

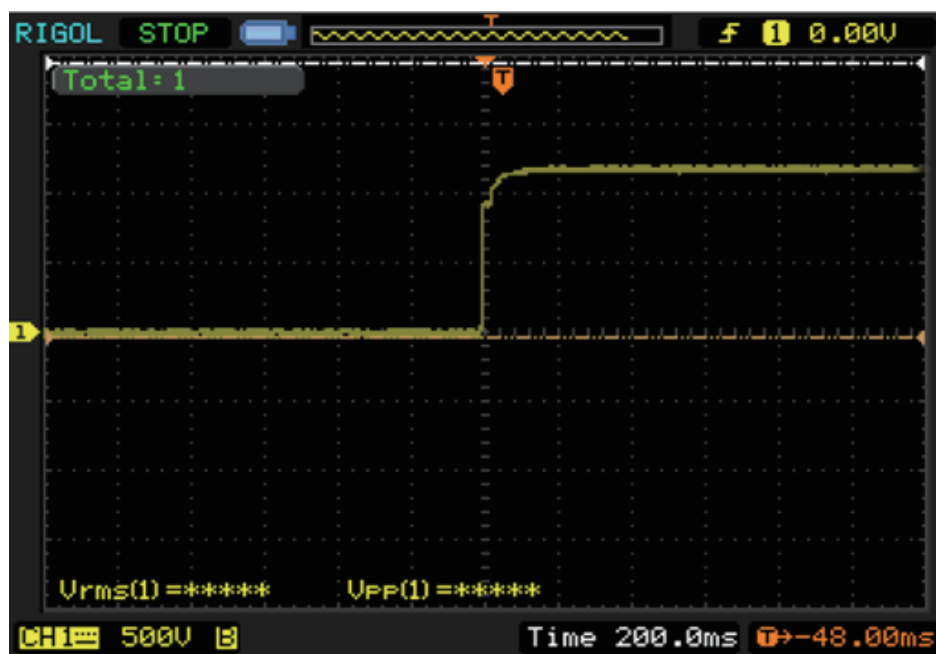
- 4 digits LED display for voltage and current
- Max. rated output 1.2kW to 15kW, customized up to 300kW
- Max. rated voltage from 6V to 2000V
- Max. rated current from 2A to 1000A, customized up to 10kA
- Low ripple, high stability
- List mode function, Auto Run function, Remote sensing function
- No overshoot during startup
- Soft start by hardware, and adjustable voltage rise time by software
- Preset function, setting of voltage and current with output open circuit
- Multiple protections: OVP, OTP, ACF and current limit protections
- Standard interface: RS232 & RS485, support ModBus-RTU commands
- Optional interface: DC 0-5V, 0-10V or 4-20mA interface for control and feedback; LAN interface

Free PC Software

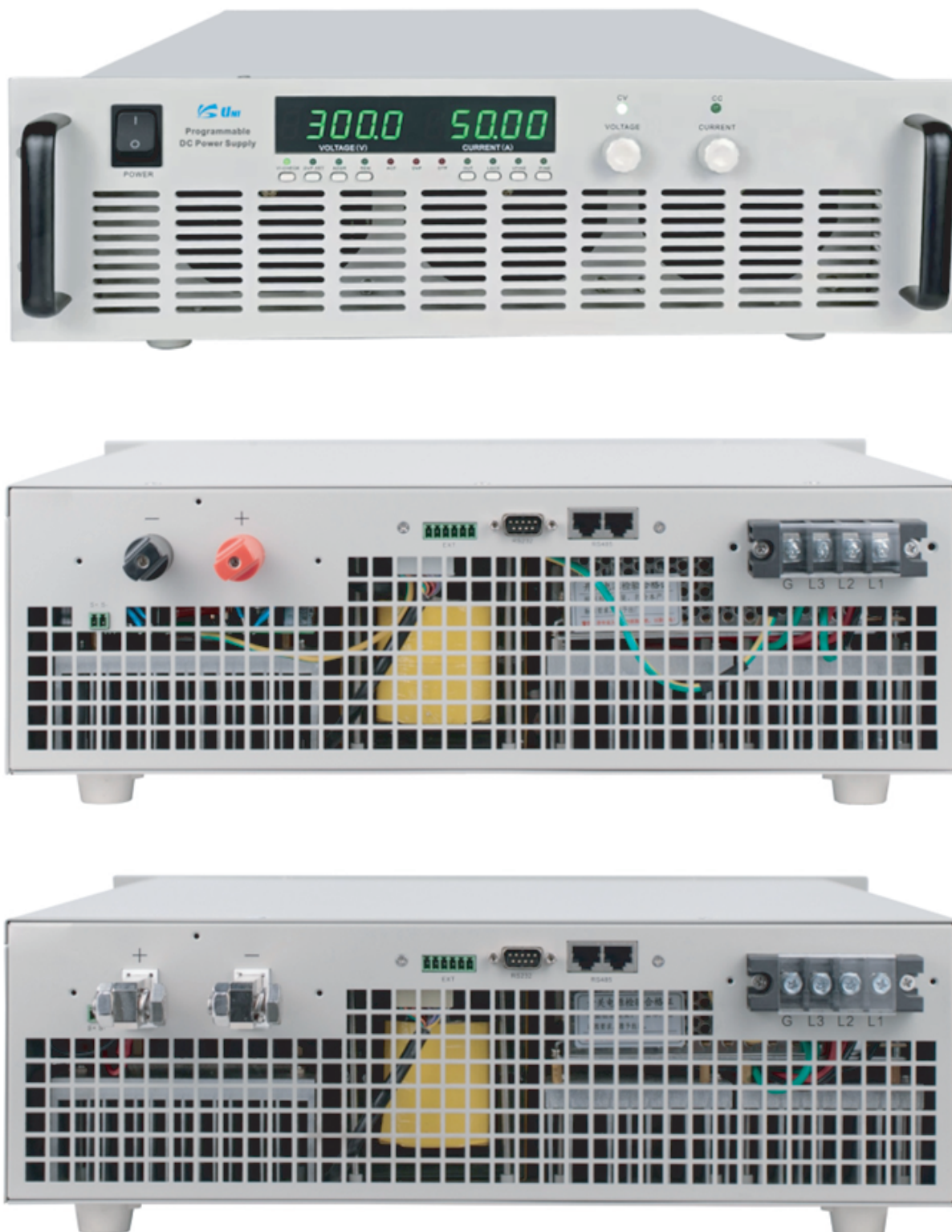
Multiple remote control and sampling functions. Such as: voltage & current setup, voltage & current feedback, data recording, export data to EXCEL, List mode function, auto run function. Adjustable voltage rise time.



No Overshoot(10%~100% range)



Product Photos (3U frame for 10kW~15kW)



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 $\leq$ 0.5%+2LSB, CC $\leq$ 0.5%+2LSB
Load Regulation		CV $\leq$ 0.1%+2LSB, CC $\leq$ 0.1%+2LSB
Ripple & Noise		$\leq$ 50mV / 100mV / 200mV
Programming		
Programming Resolution	Voltage	0.001V / 0.01V / 0.1V
	Current	0.001A / 0.01A / 0.1A
	OVP	0.001V / 0.01V / 0.1V
Interface		RS232, RS485
Commands		ModBus-RTU
Display		
Meter	Voltage	4 1/2 digits LED display for voltage
	Current	4 1/2 digits LED display for current
Display Resolution	Voltage	0.001V / 0.01V / 0.1V
	Current	0.001A / 0.01A / 0.1A
Display Accuracy	Voltage	$\leq$ 0.2%FS+2LSB
	Current	$\leq$ 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 $^{\circ}$ C $\pm$ 5 $^{\circ}$ 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 $^{\circ}$ C~40 $^{\circ}$ C, 10%~80%RH
Storage environment		-20 $^{\circ}$ C~70 $^{\circ}$ C, 10%~90%RH

List of models

Model (9.6-11.25kW)	Rated Output			Voltage Ripple	Programming Resolution			Display Resolution	
	V	A	OVP		V	A	OVP	V	A
UPL10-1000	0~10V	0~1000A	0~10.5V	≤50mV	0.01V	1A	0.01V	0.01V	1A
UPL12-800	0~12V	0~800A	0~12.6V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL15-750	0~15V	0~750A	0~15.75V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL20-500	0~20V	0~500A	0~21V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL30-333	0~30V	0~333.3A	0~31.5V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL40-250	0~40V	0~250A	0~42V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL50-200	0~50V	0~200A	0~52.5V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL60-167	0~60V	0~166.6A	0~63V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL80-125	0~80V	0~125A	0~84V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL100-100	0~100V	0~100A	0~105V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL150-66	0~150V	0~66.67A	0~157.5V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL200-50	0~200V	0~50A	0~210V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL250-40	0~250V	0~40A	0~262.5V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL300-33	0~300V	0~33.33A	0~315V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL400-25	0~400V	0~25A	0~420V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL500-20	0~500V	0~20A	0~525V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL600-16	0~600V	0~16.67A	0~630V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL800-12	0~800V	0~12.5A	0~840V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL1000-10	0~1000V	0~10A	0~1050V	≤0.2%+100mV	1V	0.01A	1V	1V	0.01A
UPL1500-6	0~1500V	0~6.67A	0~1575V	≤0.2%+100mV	1V	0.001A	1V	1V	0.001A
UPL2000-5	0~2000V	0~5A	0~2100V	≤0.2%+100mV	1V	0.001A	1V	1V	0.001A
Dimensions	482.6Wx132.5Hx533D mm (3U)								
Weight	Approx 26-28kg								
AC Input	3φ4W (L1, L2, L3, PE), 380V±10% 47~63Hz								

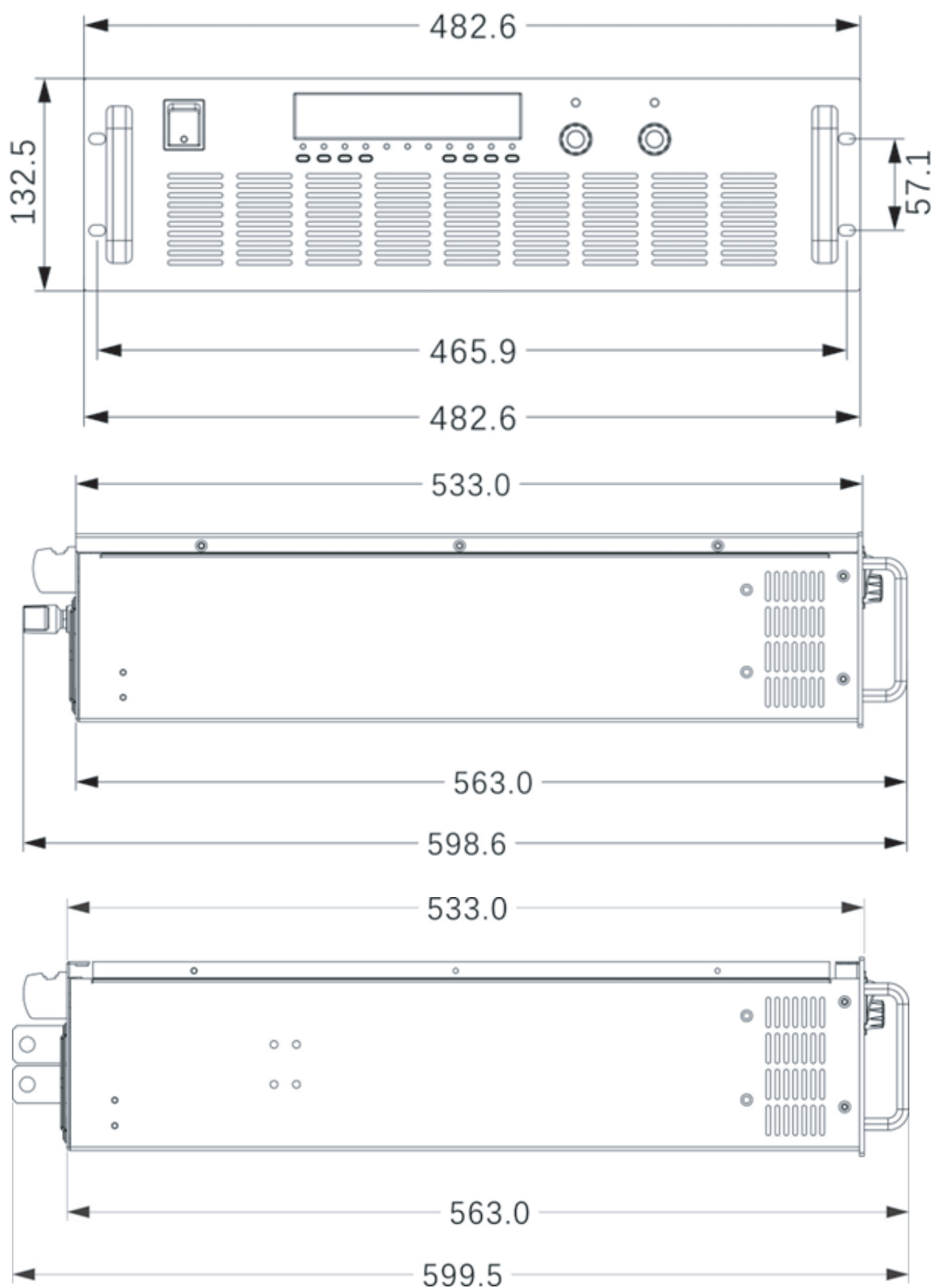
Remarks: UPL10-1000, UPL12-800, UPL15-750 output range without overshoot is from 20% to 100% of rated voltage.

List of models

Model (12-15kW)	Rated Output			Voltage Ripple	Programming Resolution			Display Resolution	
	V	A	OVP		V	A	OVP	V	A
UPL20-600	0~20V	0~600A	0~21V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL30-500	0~30V	0~500A	0~31.5V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL40-375	0~40V	0~375A	0~42V	≤0.5%+100mV	0.01V	0.1A	0.01V	0.01V	0.1A
UPL50-300	0~50V	0~300A	0~52.5V	≤0.5%+100mV	0.01V	0.1A	0.1V	0.01V	0.1A
UPL60-250	0~60V	0~250A	0~63V	≤0.5%+100mV	0.01V	0.1A	0.1V	0.01V	0.1A
UPL80-187	0~80V	0~187A	0~84V	≤0.5%+100mV	0.01V	0.1A	0.1V	0.01V	0.1A
UPL100-150	0~100V	0~150A	0~105V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL150-100	0~150V	0~100A	0~157.5V	≤0.5%+100mV	0.1V	0.1A	0.1V	0.1V	0.1A
UPL200-75	0~200V	0~75A	0~210V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL250-60	0~250V	0~60A	0~262.5V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL300-50	0~300V	0~50A	0~315V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL400-37	0~400V	0~37.5A	0~420V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL500-30	0~500V	0~30A	0~525V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL600-25	0~600V	0~25A	0~630V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL800-18	0~800V	0~18.75A	0~840V	≤0.2%+100mV	0.1V	0.01A	0.1V	0.1V	0.01A
UPL1000-15	0~1000V	0~15A	0~1050V	≤0.2%+100mV	1V	0.01A	1V	1V	0.01A
UPL1500-10	0~1500V	0~10A	0~1575V	≤0.2%+100mV	1V	0.01A	1V	1V	0.01A
UPL2000-7	0~2000V	0~7.5A	0~2100V	≤0.2%+100mV	1V	0.001A	1V	1V	0.001A
Dimensions	482.6Wx132.5Hx533D mm (3U)								
Weight	Approx 28-30kg								
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.

Dimensional drawings (3U)





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