Programmable Single Output DC Power Supplies

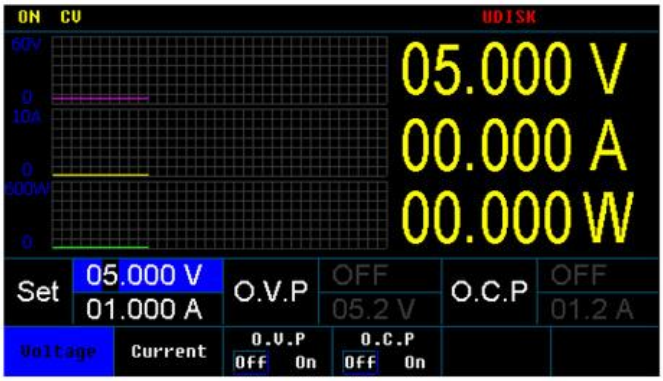
Product No : PPA1500__Series

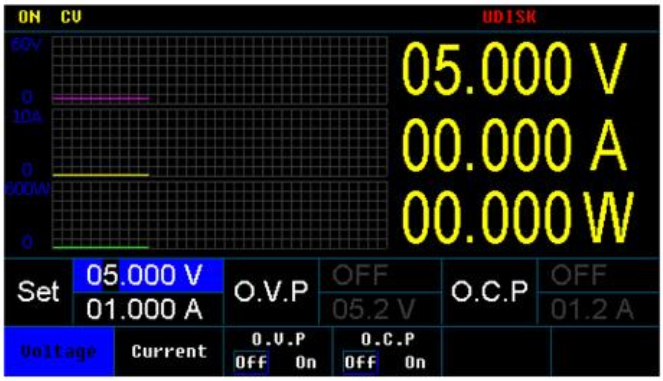
Product Description

PPA series are high precision programmable DC power supply with auto range output, output power rated 400W, 800W and 1500W, maximum rated voltage up to 1200V. PPA series offer the widest range of output voltage and current at its rated power. One PPA power supply can cover output range of multiple power supplies. It offers powerful programming function through RS232 and RS485 intefaces, supporting SCPI and Modbus-RTU commands. And it is designed to meet both bench-top and integrated system applications. It is the most economical choice of power source to facilitate auto test and auto control.

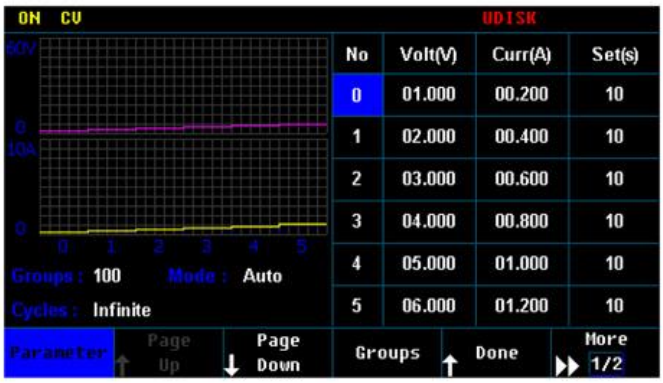
Auto range output

★ High precision and high resolution
★ Over load, over voltage, over current, over temperature and reverse polarity protections
★ Constant voltage and constant current operations, auto CV and CC switch
★ Automatic continuous or dynamic load change
★ 1mVrms low ripple & noise
★ 4.3-inch backlit Segment LCD display
★ High speed rotary dial and keypad input
★ Built-in beeper alarm
★ Panel lock and output ON/OFF function
★ List mode function, 300 sets save & recall for voltage, current and time setups, easy use in auto test
★ Remote sense function
★ Display load resistance value
★ Battery charge mode
★ Standard RS-232 interface, support SCPI commands, support Labview
★ Standard RS-485 interface, support Modbus-RTU commands
★ Optional RS-232 to USB cable





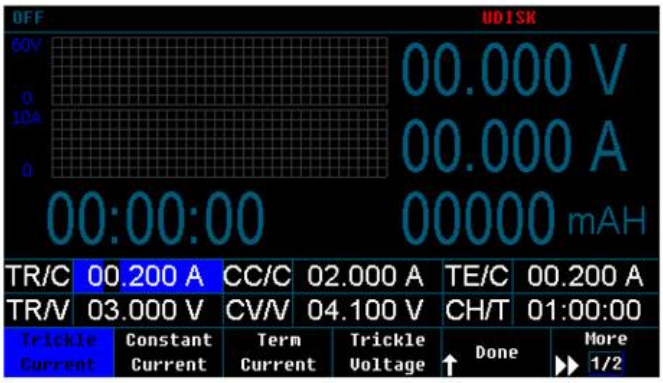
4.3-inch TFT LCD screen for full parameters and waveform display.

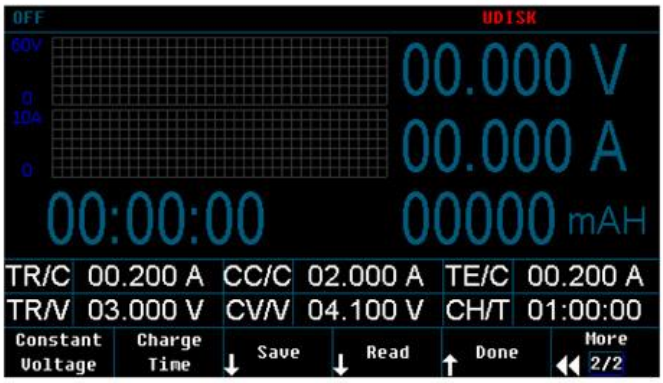


Set TIMER on to set running time, number of groups & cycle, and running mode.

Save & Recall settings

System settings





Settings for battery charge

Model	PPA1500-35	PPA1500-80	PPA1500-150	PPA1500-300	PPA1500-600
Rated output (0℃~40℃)					
Voltage	0~35V	0~85V	0~155V	0~305V	0~605V

Current		0~111A	0~40.5A	0~20.5A	0~10.5A	0~5.5A
Power		1500W	1500W	1500W	1500W	1500W
O.V.P		0.1~40V	0.1~90V	0.1~160V	0.1~310V	0.1~610V
O.C.P		0.1~112A	0.1~41.5A	0.1~21.5A	0.1~11.5A	0.1~6.5A
Constant Voltage Operation						
Line regulation		≤0.01%+5mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+50mV	≤0.01%+50mV
Load regulation		≤0.01%+5mV	≤0.01%+10mV	≤0.01%+40mV	≤0.01%+100mV	≤0.01%+100mV
Recovery time		≤500us				
Rise time		≤300ms(empty load) ≤500ms(full load)		≤300ms(empty load) ≤1s(full load)		
Fall time		≤5s(empty load) ≤150ms (full load)		≤5s(empty load) ≤200ms (full load)	≤5s(empty load) ≤150ms (full load)	≤5s(empty load) ≤200ms (full load)
Ripple & Noise (20Hz-20MHz)		≤100mVpp	≤100mVpp	≤150mVpp	≤250mVpp	≤300mVpp
Temp. co-efficiency		≤100ppm				
Constant Current Operation						
Line regulation		≤0.1%+10mA				
Load regulation		≤0.1%+10mA				
Ripple & Noise (20Hz-20MHz)		≤150mArms	≤50mArms	≤30mArm	≤40mArms	≤30mArms
Display						
Voltmeter		5 digits LCD display				
Ammeter		5 digits LCD display				
Setting resolution		1mV/10mA	1mV/1mA	10mV/1mA	10mV/1mA	10mV/1mA
Reading resolution		1mV/10mA	1mV/1mA	10mV/1mA	10mV/1mA	10mV/1mA
Setting accuracy	Voltage	±(0.01%rdg + 10mV)	±(0.01%rdg + 10mV)	±(0.03%rdg + 100mV)	±(0.03%rdg + 200mV)	±(0.03%rdg + 200mV)
	Current	±(0.1%rdg + 60mA)	±(0.1%rdg + 10mA)	±(0.1%rdg + 10 mA)	±(0.1%rdg + 10mA)	±(0.1%rdg + 10 mA)
Reading accuracy	Voltage	±(0.01%rdg +5mV)	±(0.01%rdg + 5mV)	±(0.02%rdg +50 mV)	±(0.02%rdg + 100mV)	±(0.02%rdg +100mV)
	Current	±(0.1%rdg + 40mA)	±(0.1%rdg + 0.1%FS)	±(0.1%rdg + 0.1 %FS)	±(0.1%rdg + 0.1%FS)	±(0.1%rdg + 0.1 %FS)
General						

Protection	Over load, over voltage, over current, over temperature and reverse polarity protections		
Panel lock	Provided		
Remote sense function	Maximum compensation voltage 1V		
Battery charge	Lithium battery curve charge		
Interface	RS232interface, Support SCPI commands		
	RS485 interface, Support Modbus-RTU commands		
	External Trigger terminal		
Memory	300 sets		
Insulation	Between base and terminals: ≥100MΩ/500VDC		
Operating environment	Indoor use	Altitude: ≤2000m	Ambient temperature: 0~40℃
	Relative humidity: ≤80%	Installation category: II	Pollution degree: 2
Storage environment	-10℃~70℃, ≤70%RH		
Power source	AC 220V±10%47~63Hz		
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1		
Dimension	215Wx89Hx507D mm		
Weight	7.5kg		