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## Programmable Single Output DC Power Supplies

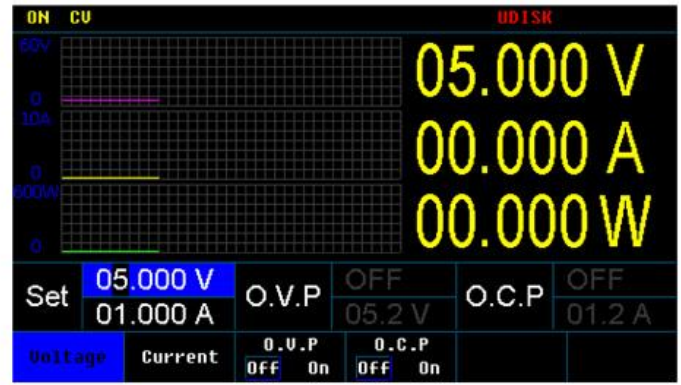
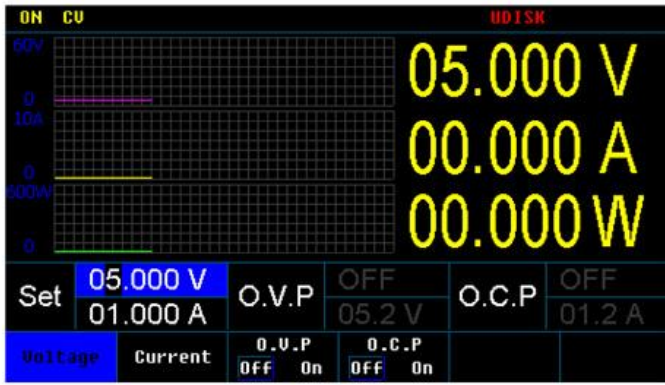


Product No : PPA400\_\_Series

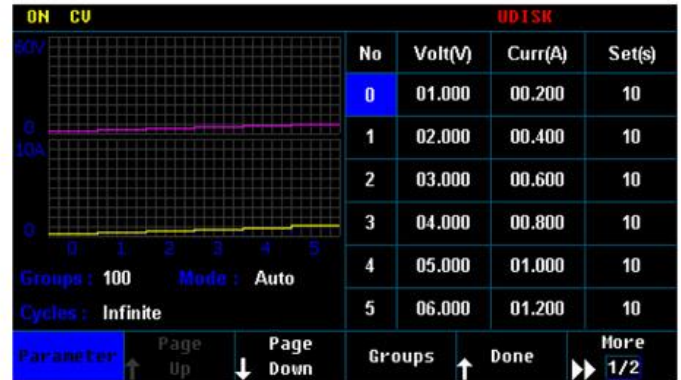
### Product Description

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 interfaces, 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.

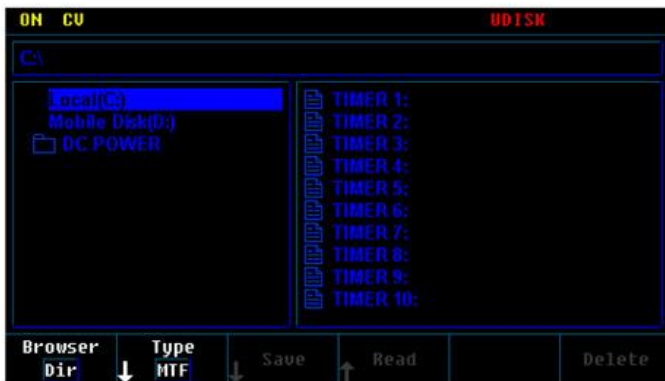
- ★ Auto range output
- ★ High precision and high resolution
- ★ Over load, over voltage, over current, over temperature and reverse polarity protections
- ★ Constant voltage and constant current operations, auto CV and CC switch
- ★ Automatic continuous or dynamic load change
- ★ 1mVrms low ripple & 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.

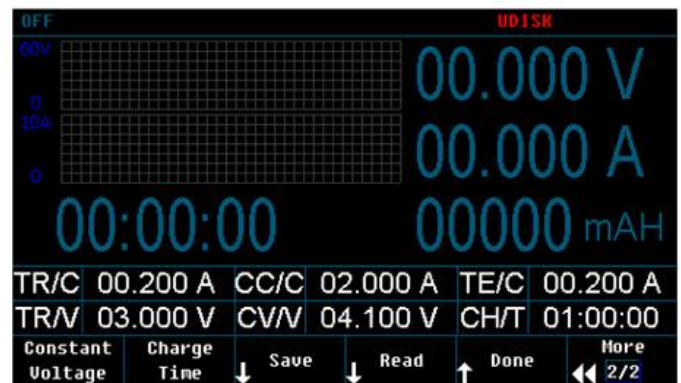
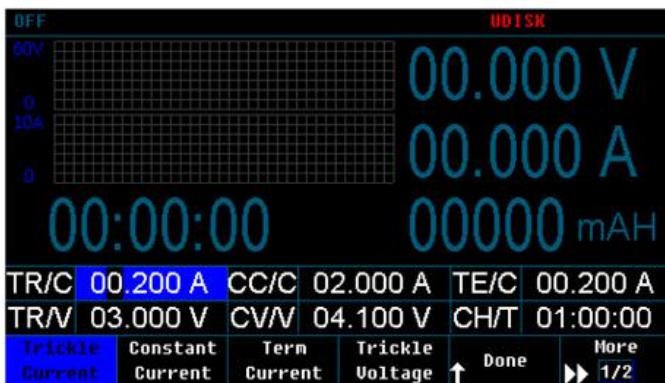


Set TIMER on to set running time, number of groups & cycle, and running mode.



Save & Recall settings

System settings



Settings for battery charge

<b>Model</b>	<b>PPA400-80</b>	
<b>Rated output (0°C~40°C)</b>		
Voltage	0~80.5V	
Current	0~20.5A	
Power	0~400W	
O.V.P	0.1~90V	
O.C.P	0.1~22A	
<b>Constant Voltage Operation</b>		
Line regulation	$\leq 0.01\% + 2.5\text{mV}$	
Load regulation	$\leq 0.01\% + 5\text{mV}$	
Recovery time	$\leq 5\text{ms}$	
Rise time	$\leq 300\text{ms}(\text{empty load}); \leq 1\text{s}(\text{full load})$	
Fall time	$\leq 500\text{ms}(\text{empty load}); \leq 300\text{ms}(\text{full load})$	
Ripple & Noise	$\leq 50\text{mVpp}$	
Temp. co-efficiency	$\leq 100\text{ppm}$	
<b>Constant Current Operation</b>		
Line regulation	$\leq 0.1\% + 2.5\text{mA}$	
Load regulation	$\leq 0.1\% + 5\text{mA}$	
Ripple & Noise	$\leq 15\text{mArms}$	
<b>Display</b>		
Voltmeter	5 digits LCD display	
Ammeter	5 digits LCD display	
Setting resolution	1mV/1mA	
Reading resolution	1mV/1mA	
Setting accuracy	Voltage	$\pm(0.01\% \text{ of reading} + 10\text{mV})$
	Current	$\pm(0.1\% \text{ of reading} + 10\text{mA})$
Reading accuracy	Voltage	$\pm(0.01\% \text{ of reading} + 5\text{mV})$
	Current	$\pm(0.1\% \text{ of reading} + 0.1\% \text{ of FS})$
<b>General</b>		
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: $\geq 100\text{M}\Omega/500\text{VDC}$		
Operating environment	Indoor use	Altitude: $\leq 2000\text{m}$	Ambient temperature: $0\sim 40^{\circ}\text{C}$
	Relative humidity: $\leq 80\%$	Installation category: II	Pollution degree: 2
Storage environment	$-10^{\circ}\text{C}\sim 70^{\circ}\text{C}$ , $\leq 70\%\text{RH}$		
Power source	AC 176V~264V(full load), 90V~132V(half load), 47~63Hz		
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1		
Dimension	215Wx89Hx352D mm		
Weight	2.5kg		

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