

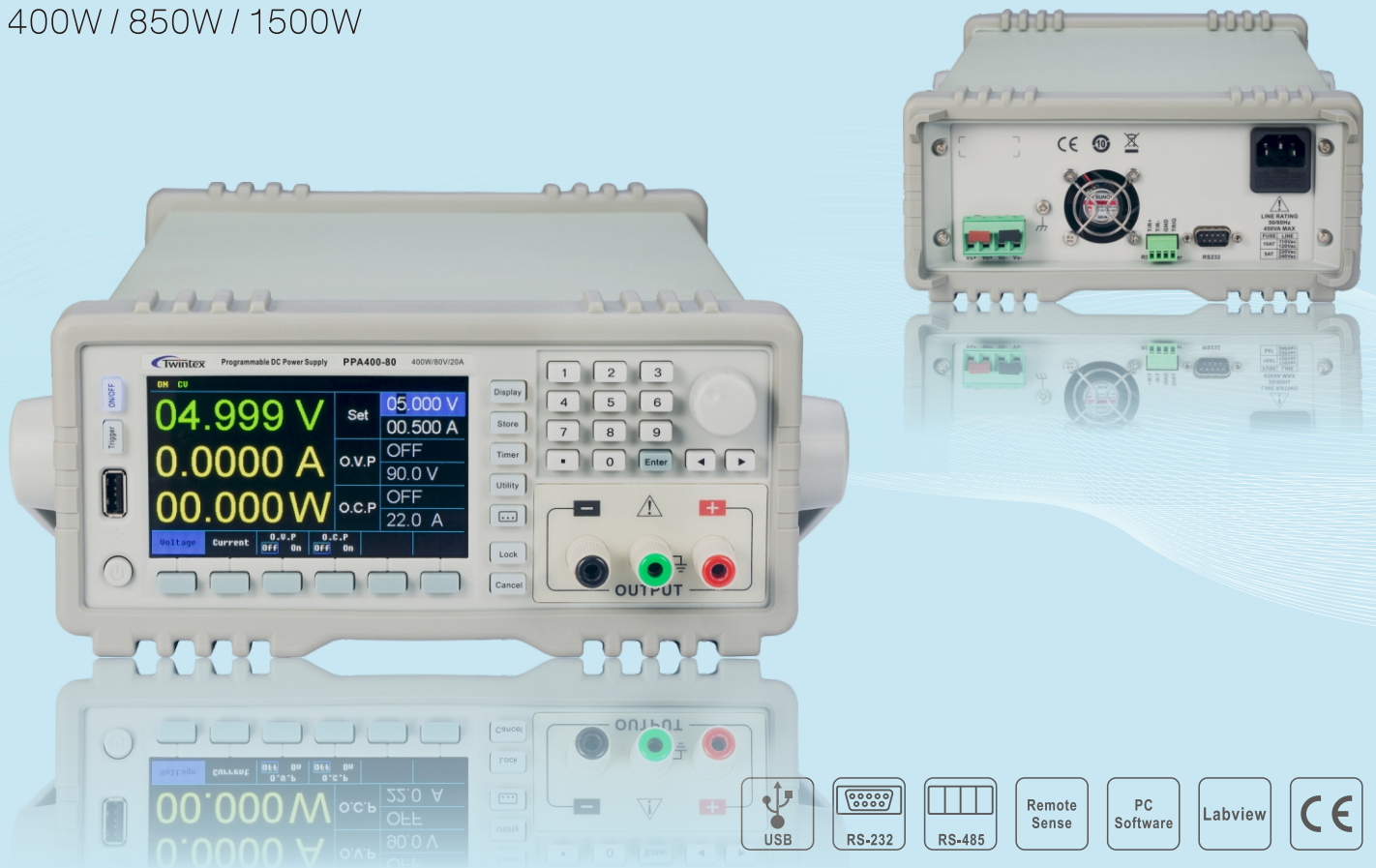
Switching Mode DC Power Supply

PROGRAMMABLE, AUTO RANGE



PPA SERIES

400W / 850W / 1500W



FEATURES

- 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
- Low resistance measurement 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
- Optional 3U / 4U rack for cabinet installation

Switching Mode DC Power Supply

PROGRAMMABLE, AUTO RANGE

SPECIFICATIONS

Model	PPA400-80		
Rated output (0°C~40°C)			
Output voltage	0~80.5V		
Output current	0~20.5A		
Output power	400W		
O.V.P. range	0.1~90V		
O.C.P. range	0.1~22A		
Constant voltage operation			
Line regulation	≤0.01%+2.5mV		
Load regulation	≤0.01%+5mV		
Ripple & Noise (20Hz~20MHz)	≤50mVpp		
Recovery time	≤5ms (50% load change)		
Rise time	≤300ms(empty load); ≤1s(full load)		
Fall time	≤500ms(empty load); ≤300ms (full load)		
Temp. co-efficiency	≤100ppm		
Constant current operation			
Line regulation	≤0.1%+2.5mA		
Load regulation	≤0.1%+5mA		
Ripple & Noise	≤15mArms		
Display			
Voltmeter	5 digits LCD display		
Ammeter	5 digits LCD display		
Setting resolution	1mV/1mA		
Reading resolution	1mV/1mA		
Setting accuracy (25±5°C)	Voltage	±(0.01% reading+10mV)	
	Current	±(0.1% reading+10mA)	
Reading accuracy (25±5°C)	Voltage	±(0.01% reading+5mV)	
	Current	±(0.1% reading+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	RS-232 interface, support SCPI commands, support Labview		
	RS-485 interface, support ModBus		
	Optional RS-232 to USB cable		
	External Trigger terminal		
Memory	300 sets		
Insulation	Between base and output terminal: ≥100MΩ/500VDC		
Operating environment	Indoor use	Altitude: ≤2000m	Ambient temperature: 0~40°C
	Relative humidity: ≤80%	Installation category: II	Pollution degree: 2
Storage environment	-10°C~70°C, ≤70%RH		
Power source	AC176V~264V (full load); AC90~132V (half load), 50/60Hz		
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1, Software CD x1		
Dimension (WxHxD)	215x89x352mm		
Weight	2.5kg		

Switching Mode DC Power Supply

PROGRAMMABLE, AUTO RANGE



SPECIFICATIONS

Model	PPA850-35	PPA850-80	PPA850-150	PPA850-300	PPA850-600
Rated output (0°C~40°C)					
Output voltage	0~35V	0~85V	0~155V	0~305V	0~605V
Output current	0~111A	0~40.5A	0~20.5A	0~10.5A	0~5.5A
Output power	850W	850W	850W	850W	850W
O.V.P. range	0.1~40V	0.1~90V	0.1~160V	0.1~310V	0.1~610V
O.C.P. range	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
Ripple & Noise (20Hz~20MHz)	≤100mVpp	≤100mVpp	≤150mVpp	≤250mVpp	≤300mVpp
Recovery time	≤500us (50% load change)				
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)
Temp. co-efficiency	≤100ppm				
Constant current operation					
Line regulation	≤0.1%+10mA				
Load regulation	≤0.1%+10mA				
Ripple & Noise	≤150mArms	≤50mArms	≤30mArms	≤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 (25±5°C)	Voltage	±(0.01% rdg+10mV)		±(0.03% rdg+100mV)	±(0.03% rdg+200mV)
	Current	±(0.1% rdg+60mA)	±(0.1% rdg+10mA)		
Reading accuracy (25±5°C)	Voltage	±(0.01% rdg+5mV)		±(0.02% rdg+50mV)	±(0.02% rdg+100mV)
	Current	±(0.1% rdg+40mA)	±(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	RS-232 interface, support SCPI commands, support Labview				
	RS-485 interface, support ModBus				
	Optional RS-232 to USB cable				
	External Trigger terminal				
Memory	300 sets				
Insulation	Between base and output terminal: ≥100MΩ/500VDC				
Operating environment	Indoor use		Altitude: ≤2000m		Ambient temperature: 0~40°C
	Relative humidity: ≤80%		Installation category: II		Pollution degree: 2
Storage environment	-10°C~70°C, ≤70%RH				
Power source	AC110V or 220V±10%, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1, Software CD x1				
Dimension (WxHxD)	215x89x507mm				
Weight	7.5kg				

Switching Mode DC Power Supply

PROGRAMMABLE, AUTO RANGE

SPECIFICATIONS

Model	PPA1500-35	PPA1500-80	PPA1500-150	PPA1500-300	PPA1500-600
Rated output (0°C~40°C)					
Output voltage	0~35V	0~85V	0~155V	0~305V	0~605V
Output current	0~111A	0~40.5A	0~20.5A	0~10.5A	0~5.5A
Output power	1500W	1500W	1500W	1500W	1500W
O.V.P. range	0.1~40V	0.1~90V	0.1~160V	0.1~310V	0.1~610V
O.C.P. range	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
Ripple & Noise (20Hz~20MHz)	≤100mVpp	≤100mVpp	≤150mVpp	≤250mVpp	≤300mVpp
Recovery time	≤500us (50% load change)				
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)
Temp. co-efficiency	≤100ppm				
Constant current operation					
Line regulation	≤0.1%+10mA				
Load regulation	≤0.1%+10mA				
Ripple & Noise	≤150mArms	≤50mArms	≤30mArms	≤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 (25±5°C)	Voltage	±(0.01% rdg+10mV)		±(0.03% rdg+100mV)	±(0.03% rdg+200mV)
	Current	±(0.1% rdg+60mA)	±(0.1% rdg+10mA)		
Reading accuracy (25±5°C)	Voltage	±(0.01% rdg+5mV)		±(0.02% rdg+50mV)	±(0.02% rdg+100mV)
	Current	±(0.1% rdg+40mA)	±(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	RS-232 interface, support SCPI commands, support Labview				
	RS-485 interface, support ModBus				
	Optional RS-232 to USB cable				
	External Trigger terminal				
Memory	300 sets				
Insulation	Between base and output terminal: ≥100MΩ/500VDC				
Operating environment	Indoor use		Altitude: ≤2000m		Ambient temperature: 0~40°C
	Relative humidity: ≤80%		Installation category: II		Pollution degree: 2
Storage environment	-10°C~70°C, ≤70%RH				
Power source	AC220V±10%, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1, Software CD x1				
Dimension (WxHxD)	215x89x507mm				
Weight	7.5kg				