

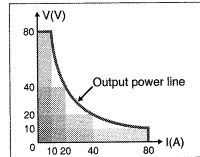
Flexible range regulated DC power supply

PSF Series

- PSF-400L** (80V/40A/400W)
- PSF-400L2** (80V/40A/400W x 2)
- PSF-800L** (80V/80A/800W)
- PSF-800LS** (80V/80A/800W) (Slave Model)

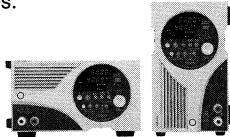
● Flexible output range

Possible to output voltage and current flexibly within the rating power. In case of PSF-800L, 10V/80A to 80V/10A, 20V/40A to 40V/20A, etc. are available corresponding to plural number of conventional regulated DC power supplies.



● 90°rotating panel operation part

90°rotating panel installs the unit vertically or horizontally.



● Sequence function

Stand alone sequence operation is possible sending the sequence made with PC to the unit through optional IF-60GP or IF-60RU interface board.

*Application for making sequence can be downloaded from the home page.



GP-1B OPTION **RS232C** OPTION **USB** OPTION

● External control

It is possible to set output voltage and current through external voltage or external resistor, and to control output on/off by external contact signal.

● Others

Off timer function, 3 point preset function, monitor out function (voltage, current, and status), protection function, delay function (PSF-400L2 only), and tracking function(PSF-400L2 only).

Output rating

Model name	PSF-400L	PSF-800L	PSF-400L2	PSF-800LS
Rating output voltage	80.00V	80.00V	80.00Vx2CH	80.00V
Setting accuracy	0.1%setting±2digit			
Resolution	10mV			
Display accuracy	0.2%reading±2digit			
Rating output current ¹⁾	40.00A	80.00A	40.00Ax2CH	80.00A
Setting accuracy	0.2%setting±2digit			
Resolution	10mA			
Display Accuracy	0.3%reading±2digit			
Rating output power ²⁾	400W	800W	400Wx2CH	800W
Setting accuracy	±10W			
Resolution	10W			
Display accuracy	0.5%reading±5digit			

Input rating

Model name	PSF-400L	PSF-800L	PSF-400L2	PSF-800LS
Input voltage	single phase AC100V ~AC240V frequency : 50Hz/60Hz			
Power consumption ³⁾	560VA	1120VA	1120VA	1120VA
Power factor ⁴⁾	0.99			
Rush current	35Amax	70Amax	70Amax	70Amax

Constant voltage characteristics

Model name	PSF-400L	PSF-800L	PSF-400L2
Line regulation ⁵⁾	0.01%±2mV of rating voltage		
Load regulation ⁶⁾	0.01%±3mV of rating voltage		
Ripple noise(p-p) ⁷⁾	90mV	150mV	90mV
Ripple noise(rms) ⁸⁾	4mV	6mV	4mV
Transient response(typ) ⁹⁾	1ms	1ms	1ms
Rising time(typ) ¹⁰⁾	50ms(Rating load) 50ms(No load)		
Falling time(typ) ¹¹⁾	100ms(Rating load) 500ms(No load)		
Temperature coefficient(typ) ¹²⁾	50ppm/°C (after 30 minute warming up)		

Constant current characteristics

Model name	PSF-400L	PSF-800L	PSF-400L2
Line regulation ⁵⁾	0.01%±2mA of rating current		
Load regulation ⁹⁾	0.02%±3mA of rating current		
Ripple noise(rms)	30mA	60mA	30mA
Temperature coefficient(typ) ¹²⁾	100ppm/°C (after 30 minute warming up)		

Constant power characteristics

Model name	PSF-400L	PSF-800L	PSF-400L2
Line regulation ⁵⁾	0.5%±10W		

Options

IF-60GP: GP-1B control board, **IF-60RU**: RS-232C/USB control board, **OP-21A**: Horizontal installation connection kit, **OP-21B**: Vertical installation connection kit, **HK-10**: Handle kit

Function

Constant voltage control(CV) by external voltage	Output voltage: approx. 0V to 80V corresponding to external voltage 0V to 10V.
Constant voltage control(CV) by external resistor	Output voltage: approx. 0V to 80V corresponding to external resistor 0 ohm to 10K ohm.
Constant current control(CC) by external voltage	Output current: approx. 0A to 40A(400L, 400L2), approx. 0A to 80A(800L) corresponding external voltage 0V to 10V.
Constant current control(CC) by external resistor	Output current: approx. 0A to 40A(400L, 400L2), approx. 0A to 80A(800L) corresponding external resistor 0 ohm to 10K ohm.
External ON/OFF control	ON/OFF by contacting Short: ON Open: OFF
Output voltage monitor signal	Approx. 0V to 10V corresponding to 0V to rating output voltage.
Output current monitor signal	Approx. 0V to 10V corresponding to 0V to 10V corresponding to 0A to rating output current.
Constant voltage(CV) status signal	Open collector active LOW
Constant current(CC) status signal	Open collector active LOW
Alarm signal output	Open collector active LOW
Alarm signal input	Short circuit: OUTPUT OFF
Remote sensing function	Compensate 1V for one side (Within rating voltage at current output terminal)
Single control parallel operation	Up to 4 units(except 400L2)
Single control series operation	Up to 2 units(except 400L2)
Pre-set function	Up to 3points
Off timer function(OFF TIMER)	Setting time to output off Setting range: 10 minutes to 99hours 50minutes
High impedance function(HI-Ω)	Off the internal bleeder function
Delay function(DELAY) ¹³⁾	Setting delay time of output Setting range: -9.99s to 10.00s(0.01s resolution)
Tracking function ¹³⁾	Possible to change two channels at the same time
Key lock function	Invaliding front panel operation
Sequence function	Simple programming operation by step number, step time, number of cycle, etc.

Protection function

Over voltage(OVP): Fixed ¹⁴⁾	OUTPUT OFF with 110% of rating output voltage
Over voltage(OVP): Variable ¹⁵⁾	OUTPUT OFF when operating Setting range: 1V to 84V with front panel
Over current(OCP): Fixed ¹⁴⁾	OUTPUT OFF with 110% of rating output current
Over current(OCP): Variable ¹⁵⁾	OUTPUT OFF when operating Setting range: 1A to 42A(84A for 800L) with front panel
Over heat(OHP) ¹⁴⁾	OUTPUT OFF above heat sink setting temperature

Environment circumstances

Operating temperature range	0°C to 40°C
Operating humidity range	30% to 80% RH (no dew condensation)
Storage temperature range	-20°C to 70°C
Storage humidity range	30% to 80% RH (no dew condensation)

Others

Dimensions	W x H x D : 210mm x 124mm x 290mm
Weight	PSF-400L: Approx. 5Kgs PSF-800L, 400L2, 800LS: Approx. 7Kgs
Accessories	Instruction manual, screw for rear output terminal, rear output insulation cover, front output terminal protection cap, connector(26pin), GND cable, AC power cable