



PSF-H series Offer 800V Max!!

High Voltage Flexible Range Regulated DC Power supply

PSF-400H PSF-800H

Outline

PSF-H series is a switching regulated DC power supply performing flexible setting for voltage and current in the wide range within the rating power. Suitable for testing of relay for hybrid car, solar power

system and high-voltage LED lighting.

Model	Output	Channel
PSF-400H	800V/3A/400W	1
PSF-800H	800V/6A/800W	1

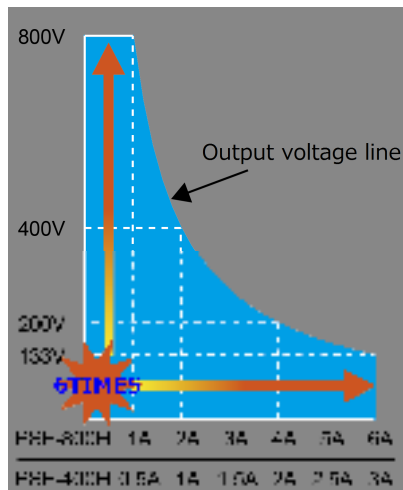
Features

•High-Voltage 0V to 800V

Considering testing for high-voltage capacitors or relays used for hybrid cars, electric cars, solar power system, and high-voltage LED lighting equipment.

•6 times of flexible output range

PSF-800H covers outputs for several units of conventional type regulated power supplies, 800V/1A, 640V/1.25A, 500V/1.6A, 400V/2A, 160V/5A, 133.3V/6A, etc. within 800W from max voltage 800V, max current 6A.

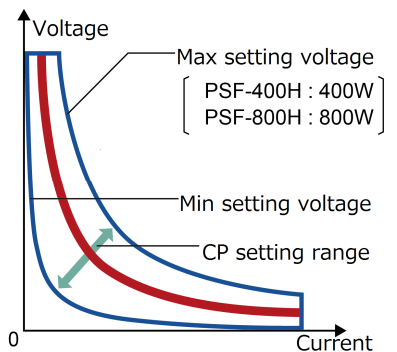


•Sequence operation

Stand-alone sequence is available with the inside memory programmed by PC, through the optional control board (IF-60GP, IF-60RU).

•Constand Power Control

In addition to constant voltage (CV) control and constant current (CC) control, constant power (CP) control is available for an arbitrary power supply source or a limit function to prevent excessive supply of power



•Convenient Function

Changeable setting style: Vertical or horizontal setting by 90° rotating panel.

Compact unit: Both PSF-400H and PSF-800H measure half-rack width (horizontal setting) and 290mm depth witch gives you a wide working space.

Remote sensing: Offset the resistance voltage drop caused by connection wire rod to the load.

Optional control boards: IF-60GP for GP-IB, IF-60RU for USB or RS-232C

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Specification

	PSF-400H	PSF-800H
Output Specifications		
Rated output voltage	800.0V	
Setting accuracy	0.1% setting \pm 2digit(23°C \pm 5°C)	
Resolution	100mV	
Display accuracy	0.2% reading \pm 2digit(23°C \pm 5°C)	
Rated output current*1	3.00A	6.00A
Setting accuracy	0.2% reading \pm 2digit(23°C \pm 5°C)	
Resolution	10mA	
Display accuracy	0.3% reading \pm 2digit(23°C \pm 5°C)	
Rated output power *2	400W	800W
Setting accuracy	\pm 10W only output voltage measures more than 1% of rated voltage	
Resolution	10W	
Display accuracy	0.5% reading \pm Vout \times 40Ma (23°C \pm 5°C)	
Input Specifications		
Input voltage	AC100V to 240V single-phase, frequency: 50Hz or 60Hz	
Power consumption *3	560VA	1120VA
Power factor*4	0.99	
Rush current	35Amax.	70Amax
Constant-Current Characteristics		
Source fluctuation *5	0.05% \pm 10mA of rated current	
Load fluctuation *13	0.05% \pm 15mA of rated current	
Ripple noise(rms)	15mA	20mA
Temperature coefficient(typ) *12	\pm 200ppm/°C (after 30-minute warming up)	

	PSF-400H	PSF-800H
Constant-Voltage Characteristics		
Source fluctuation *5	0.01% \pm 20mV of rated voltage	
Load fluctuation *6	0.01% \pm 30mV of rated voltage	
Ripple noise(p-p) *7	250mV	300mV
	only output voltage measures more than 1% of rated voltage	
Ripple noise(rms) *8	20mV (when current measures less than 2A) 35mV (when current measures over 2A)	25mV (when current measures less than 2A) 40mV (when current measures over 2A)
	only output voltage measures more than 1% of rated voltage	
Transient response(typ) *9	7ms	
Rise time (typ.) *10	200ms(rated load), 200ms (no load)	
Others		
Cooling method	Forced cooling with fan motor	
To-GND voltage	\pm DC1000V	
Dielectric strength voltage	Power In terminals – frame : AC1500V, 1min	
	Power In terminals – Output terminals: AC2300V, 1min.	
Isolation resistance	Power In terminals – frame : DC500V	
	Power In terminals – Output terminals:DC1000V,30M Ω or more	
	Output terminals – frame : DC 1000V, 30M Ω or more	
Outside dimensions (Projections notincluded)	124mm(H) \times 210mm(W) \times 290mm(D)	
Weight	Approx. 5kg	Approx. 6kg

NOTES

- *1 The maximum output current through the front output terminals are 3A (PSF-400H) and 6A (PSF-800H)
- *2 Switching from the constant-voltage (CV) or constant-current (CC) mode into the constant-power (CP) mode or versa is subject to over-shoot ringing, etc.
- *3, 4 At the rated output voltage and AC100V input
- *5 Fluctuation when the source voltage is changed by \pm 10% in the range from AC100V to 240V.
- *6 Fluctuation when the load is changed from the rated load into no load (open circuit) at the rated output voltage.
- *7 Measured at the frequency up to 20MHz.

*8 Measured at the frequency up to 300kHz.

*9 Responding time that rating output voltage returns to 0.1%+10mV of rating voltage when setting rating output voltage and changing output current from 50% to 100% of max. output current.

*10 Value with a fixed load. Time until the output voltage increases up to 10% to 90% of the rated output voltage.

*11 Value with a fixed load. Time until the output voltage decreases down to 90% to 10% of the rated output voltage

*12 Value after 30minutes of warming up (excluding external control).

*13 Fluctuation when the load is changed from the rated load into no load (short circuit) at the rated output current.

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