

PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



PSH-Series



FEATURES

- * Wide Input Voltage Range and High Power Factor (P.F)
- * High Efficiency and High Power Density
- * Constant Voltage and Constant Current Operation
- * Over Voltage , Over Current and Over Temperature Protection
- * Self-Test and Software Calibration
- * Output ON/OFF Control
- * Low Ripple and Noise
- * LCD Display
- * Built-in Buzzer Alarm
- * Standard Interface : RS-232C
- * Optional Interface : GPIB (IEEE-488.2)
- * LabVIEW Driver

Front Panel



Rear Panel



The PSH-Series are single output from 360 to 1080W, programmable switching DC power supplies. OVP, OCP and OTP protect the power supply and loads from unexpected conditions. Remote sensing adds an extra level of precision by compensating cable losses between loads. The bright LCD with simultaneous parameter outputs allows effortless operation. Self-test and software calibration features also reduce maintenance overheads. SCPI commands and LabVIEW driver access through the RS-232C or the optional GPIB interface allow remote control and ATE software development capability. Modular architecture, dedicated rear-panel output, and the 19 inch 4U rack mounting option ensure that the PSH-Series is optimized for large systems.

SPECIFICATIONS				
OUTPUT				
10V	36A(PSH-1036A)	70A(PSH-1070A)	100A(PSH-10100A)	
20V	18A(PSH-2018A)	35A(PSH-2035A)	50A(PSH-2050A)	
36V	10A(PSH-3610A)	20A(PSH-3620A)	30A(PSH-3630A)	
60V	6A(PSH-6006A)	12A(PSH-6012A)	18A(PSH-6018A)	
REGULATION (CV)				
Load	≤ 0.1%+5mV	≤ 0.1%+5mV	≤ 0.1%+5mV	
Line	≤ 0.05%+5mV	≤ 0.05%+5mV	≤ 0.05%+5mV	
REGULATION (CC)				
Load	≤ 0.2%+5mA	≤ 0.2%+10mA	≤ 0.2%+15mA	
Line	≤ 0.2%+5mA	≤ 0.2%+10mA	≤ 0.2%+15mA	
RIPPLE & NOISE				
Voltage (mVrms)	≤ 10mVrms	≤ 10mVrms	≤ 10mVrms	
Voltage (mVp-p)	≤ 100mVp-p 20Hz~20MHz	≤ 100mVp-p 20Hz~20MHz	≤ 100mVp-p 20Hz~20MHz	
Current (mA rms)	≤ 0.2%	≤ 0.2%+20mA	≤ 0.2%+40mA	
RESOLUTION				
Voltage	≤ 36V 10mV	10mV	10mV	
>36V	20mV	20mV	20mV	
Current	10V 10mA	20mA	30mA	
20V	10mA	10mA	20mA	
36V	10mA	10mA	10mA	
60V	10mA	10mA	10mA	
PROGRAM ACCURACY				
Voltage	≤ 36V ≤ 0.05%+25mV	≤ 0.05%+25mV	≤ 0.05%+25mV	
>36V	≤ 0.05%+50mV	≤ 0.05%+50mV	≤ 0.05%+50mV	
Current	10V ≤ 0.2%+30mA	≤ 0.2%+60mA	≤ 0.2%+90mA	
20V	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+60mA	
36V	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	
60V	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	
REARBACK (Meter) RESOLUTION				
Voltage	Same as Resolution	Same as Resolution	As Resolution	
Current	Same as Resolution	Same as Resolution	As Resolution	
REARBACK (Meter) ACCURACY				
Voltage	Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy	
Current	Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy	
REARBACK TEMP. COEFFICIENT				
Voltage (25±5°C)	≤ 100ppm/°C	≤ 100ppm/°C	≤ 100ppm/°C	
RESPONSE (Rise/Fall) TIME				
Voltage Up(10%~90%)	≤ 150mS(≤95% rating load)	≤ 150mS(≤95% rating load)	≤ 150mS(≤95% rating load)	
Voltage Down(90%~10%)	≤ 150mS(≥10% rating load)	≤ 150mS(≥10% rating load)	≤ 150mS(≥10% rating load)	
RECOVERY TIME (50% Step Load Change From 25%~75%)				
CV Mode	≤ 2mS	≤ 2mS	≤ 2mS	
PROTECTION				
OVP/OCP/OTP	✓	✓	✓	
Rush Current	✓	✓	✓	
OUTPUT ON/OFF CONTROL				
	✓	✓	✓	
INTERFACE				
Standard : RS-232C; Optional : GPIB				
POWER SOURCE				
AC90V~250V, 50/60Hz				
DIMENSIONS & WEIGHT				
	108(W)x142(H)x393(D)mm Approx. 3.3kg	188(W)x142(H)x393(D)mm Approx. 6.2kg	268(W)x142(H)x393(D)mm Approx. 9.3kg	

ORDERING INFORMATION

PSH-1036A	360W Programmable Switching D.C. Power Supply	PSH-3610A	360W Programmable Switching D.C. Power Supply
PSH-1070A	700W Programmable Switching D.C. Power Supply	PSH-3620A	720W Programmable Switching D.C. Power Supply
PSH-10100A	1000W Programmable Switching D.C. Power Supply	PSH-3630A	1080W Programmable Switching D.C. Power Supply
PSH-2018A	360W Programmable Switching D.C. Power Supply	PSH-6006A	360W Programmable Switching D.C. Power Supply
PSH-2035A	700W Programmable Switching D.C. Power Supply	PSH-6012A	720W Programmable Switching D.C. Power Supply
PSH-2050A	1000W Programmable Switching D.C. Power Supply	PSH-6018A	1080W Programmable Switching D.C. Power Supply

ACCESSORIES :
User manual x 1 , Power cord x 1

OPTION

Opt. 01: GPIB Interface (Factory Installed)

OPTIONAL ACCESSORIES

GRA-403 Rack Adapter Panel
GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer

FREE DOWNLOAD

PC Software Driver PC Software including Data Log ; Remote Control Software
Labview Driver

NOTE : When Opt.01 GPIB interface is ordered, the standard interface RS-232C will be deleted.

PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



PSP-603/405/2010



FEATURES

- * LCD Display
- * Output ON/OFF Control
- * 3 Step Fan Speed Control
- * Voltage/Current/Power Setting
- * Key Lock to Avoid Error Operation
- * Normal , +% & -% Output Operation Key
- * Standard Interface : RS-232C
- * Optional European Type Jack Terminal

The PSP-Series are single output, 200W, programmable switching DC power supplies. OVP, OCP, OTP, and OPP protect the PSP-Series and its loads from unexpected conditions. The PSP-Series have large LCD panel with output and parameter views and a key lock feature to prevent changing the settings. The PSP-Series is suitable for generic bench-top applications in laboratories and educational institutions.

SPECIFICATIONS				
OUTPUT				
Model	PSP-603	PSP-405	PSP-2010	
Voltage	0 ~ 60V	0 ~ 40V	0 ~ 20V	
Current	0 ~ 3.5A	0 ~ 5A	0 ~ 10A	
VOLTAGE REGULATION				
Load	≤ 10mV	≤ 10mV	≤ 10mV	
Line	≤ 0.05%	≤ 0.05%	≤ 0.05%	
CURRENT REGULATION				
Load	≤ 5mA	≤ 5mA	≤ 5mA	
Line	≤ 0.05%	≤ 0.05%	≤ 0.05%	
RIPPLE				
Voltage (mVrms)	≤ 20mV	≤ 20mV	≤ 20mV	
Current (mA rms)	≤ 10mA	≤ 10mA	≤ 10mA	
RESOLUTION				
Voltage	20mV	10mV	10mV	
Current	2mA	2mA	5mA	
PROGRAM ACCURACY				
Voltage	± 0.05%rdg ± 4digits	± 0.05%rdg ± 3digits	± 0.05%rdg ± 3digits	
Current	± 0.1%rdg ± 5digits	± 0.1%rdg ± 5digits	± 0.3%rdg ± 10digits	
REARBACK (METER) RESOLUTION				
Voltage	Same as Resolution	Same as Resolution	Same as Resolution	
Current	Same as Resolution	Same as Resolution	Same as Resolution	
REARBACK (METER) ACCURACY				
Voltage	Same as Program Accuracy	Same as Program Accuracy	Same as Program Accuracy	
Current	Same as Program Accuracy	Same as Program Accuracy	Same as Program Accuracy	
PROTECTION				
OVP/OCP/OPP/OTP	✓	✓	✓	
OUTPUT ON/OFF CONTROL				
	✓	✓	✓	
DISPLAY				
LCD				
INTERFACE (STANDARD)				
RS-232C				
POWER SOURCE				
AC 115V±10% , AC 230V±15% , 50/60Hz				
DIMENSIONS & WEIGHT				
225(W) x 100(H) x 305(D) mm ; Approx. 4kg				

ORDERING INFORMATION

PSP-603	200W Programmable Switching DC Power Supply
PSP-405	200W Programmable Switching DC Power Supply
PSP-2010	200W Programmable Switching DC Power Supply

ACCESSORIES :

User manual x 1 , Power cord x 1 , Test lead GTL-104 x 1 , European test lead GTL-204 x 1

OPTIONAL ACCESSORIES

GTL-232A RS-232C Cable

FREE DOWNLOAD

PC Software RS-232 Remote Control Software

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