

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
- * Option : GPIB (IEEE-488.2)
- * LabVIEW Driver



Rear Panel



The PSH Series is single output, 360 to 1080W, programmable switching DC power supply OVP, OCP, and OTP protect PSH and loads from unexpected conditions. Remote sensing adds extra level of precision by compensating cable losses between loads. LCD panel with simultaneous output/parameter view provides comfortable operation. Self-test and software calibration features also reduce maintenance overhead. SCPI command set and LabVIEW driver access through RS-232C or optional GPIB interface provide remote control and ATE software development capability. Modular architecture, exclusive rear-panel output, and 19inch, 4U rack mounting option ensure the PSH Series is optimized for large systems. (Note: only one interface, RS-232C or GPIB, can be installed at a time)

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
READBACK (Meter) RESOLUTION				
Voltage	As Resolution	As Resolution	As Resolution	
Current	As Resolution	As Resolution	As Resolution	
READBACK (Meter) ACCURACY				
Voltage	As Program Accuracy	As Program Accuracy	As Program Accuracy	
Current	As Program Accuracy	As Program Accuracy	As Program Accuracy	
READBACK 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; Option01 : GPIB (order GPIB interface RS-232C will be deleted)				
POWER SOURCE				
AC90V~250V, 50/60Hz				
DIMENSIONS & WEIGHT				
	108(W)x141(H)x388(D)mm Approx. 3.3kg	188(W)x141(H)x388(D)mm Approx. 6.2kg	268(W)x141(H)x388(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

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

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