

Programmable Switching D.C. Power Supply



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.

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

SPECIFICATIONS				
	PSH-2018A	PSH-3610A	PSH-3620A	PSH-3630A
OUTPUT				
Voltage	20V	36V	36V	36V
Current	18A	10A	20A	30A
REGULATION (C.V.)				
Load	≤ 0.1%+5mV	≤ 0.1%+5mV	≤ 0.1%+5mV	≤ 0.1%+5mV
Line	≤ 0.05%+5mV	≤ 0.05%+5mV	≤ 0.05%+5mV	≤ 0.05%+5mV
REGULATION (C.C.)				
Load	≤ 0.2%+5mA	≤ 0.2%+5mA	≤ 0.2%+10mA	≤ 0.2%+15mA
Line	≤ 0.2%+5mA	≤ 0.2%+5mA	≤ 0.2%+10mA	≤ 0.2%+15mA
RIPPLE & NOISE				
Voltage (mVrms)	≤ 10mVrms	≤ 10mVrms	≤ 10mVrms	≤ 10mVrms
Voltage (mVp-p)	≤ 100mVp-p	≤ 100mVp-p	≤ 100mVp-p	≤ 100mVp-p
Current (mArms)	≤ 0.2%	≤ 0.2%	≤ 0.2%+20mA	≤ 0.2%+40mA
RESOLUTION				
Voltage	≤36V 10mV	10mV	10mV	10mV
	>36V 20mV	20mV	20mV	20mV
Current	10V 10mA	10mA	10mA	10mA
	20V 10mA	10mA	10mA	20mA
	36V 10mA	10mA	10mA	10mA
	60V 10mA	10mA	10mA	10mA
PROGRAM ACCURACY				
Voltage	≤ 36V ≤ 0.05%+25mV	≤ 0.05%+25mV	≤ 0.05%+25mV	≤ 0.05%+25mV
	>36V ≤ 0.05%+50mV	≤ 0.05%+50mV	≤ 0.05%+50mV	≤ 0.05%+50mV
Current	10V ≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+90mA
	20V ≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+60mA
	36V ≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA
	60V ≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA	≤ 0.2%+30mA
READBACK (Meter) RESOLUTION				
Voltage	Same as Resolution	Same as Resolution	Same as Resolution	As Resolution
Current	Same as Resolution	Same as Resolution	Same as Resolution	As Resolution
READBACK (Meter) ACCURACY				
Voltage	Same as Program Accuracy	Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy
Current	Same as Program Accuracy	Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy
READBACK TEMP. COEFFICIENT				
Voltage (25 ±5°C)	≤ 100ppm/°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)	≤ 150mS (≤95% rating load)
Voltage Down (90%~10%)	≤ 150mS (≥10% rating load)	≤ 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	≤ 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	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



Rear Panel



PSH-Series

ORDERING INFORMATION

PSH-2018A	360W Programmable Switching D.C. Power Supply
PSH-3610A	360W Programmable Switching D.C. Power Supply
PSH-3620A	720W Programmable Switching D.C. Power Supply
PSH-3630A	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 (19" , 4U)
GTL-232	RS-232C Cable, 9-pin Female to 9-pin, null Modem for Computer
GTL-251	GPIB-USB-HS(High Speed)

FREE DOWNLOAD

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

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

Contact:
Industrial Process Measurement, Inc.
3910 Park Avenue, Unit 7
Edison, NJ 08820
732-632-6400
support@instrumentation2000.com
http://www.instrumentation2000.com

View PSH-3610A