

# Programmable Switching D.C. Power Supply

C1



## 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

## PSH-Series

### SPECIFICATIONS

| OUTPUT   | 10V  | 36A(PSH-1036)  | 70A(PSH-1070)  | 100A(PSH-10100)  |
|--|--|--|--|--|
|  | 20V  | 18A(PSH-2018)  | 35A(PSH-2035)  | 50A(PSH-2050)  |
|  | 36V  | 10A(PSH-3610)  | 20A(PSH-3620)  | 30A(PSH-3630)  |
|  | 60V  | 6A(PSH-6006)   | 12A(PSH-6012)  | 18A(PSH-6018)  |
| REGULATION ( CV )                                      | Load<br>Line   | ≤ 0.1%+5mV<br>≤ 0.05%+5mV  | ≤ 0.1%+5mV<br>≤ 0.05%+5mV  | ≤ 0.1%+5mV<br>≤ 0.05%+5mV  |
| REGULATION ( CC )                                      | Load<br>Line   | ≤ 0.2%+5mA<br>≤ 0.2%+5mA   | ≤ 0.2%+10mA<br>≤ 0.2%+10mA   | ≤ 0.2%+15mA<br>≤ 0.2%+15mA   |
| RIPPLE & NOISE   | Voltage (mVrms)<br>Voltage (mVp-p)<br>Current (mArms)                                  | ≤ 10mVrms<br>≤ 100mVp-p 20Hz~20MHz<br>≤ 0.2%   | ≤ 10mVrms<br>≤ 100mVp-p 20Hz~20MHz<br>≤ 0.2%+20mA  | ≤ 10mVrms<br>≤ 100mVp-p 20Hz~20MHz<br>≤ 0.2%+40mA  |
| RESOLUTION   | Voltage ≤36V<br>>36V<br>Current 10V<br>20V<br>36V<br>60V                               | 10mV<br>20mV<br>10mA<br>10mA<br>10mA<br>10mA   | 10mV<br>20mV<br>20mA<br>10mA<br>10mA<br>10mA   | 10mV<br>20mV<br>30mA<br>20mA<br>10mA<br>10mA   |
| PROGRAM ACCURACY                                       | Voltage ≤36V<br>>36V<br>Current 10V<br>20V<br>36V<br>60V                               | ≤ 0.05%+25mV<br>≤ 0.05%+50mV<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA | ≤ 0.05%+25mV<br>≤ 0.05%+50mV<br>≤ 0.2%+60mA<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA | ≤ 0.05%+25mV<br>≤ 0.05%+50mV<br>≤ 0.2%+90mA<br>≤ 0.2%+60mA<br>≤ 0.2%+30mA<br>≤ 0.2%+30mA |
| READBACK ( Meter )<br>RESOLUTION                       | Voltage<br>Current   | As Resolution<br>As Resolution   | As Resolution<br>As Resolution   | As Resolution<br>As Resolution   |
| READBACK ( Meter )<br>ACCURACY                         | Voltage<br>Current   | As Program Accuracy<br>As Program Accuracy   | As Program Accuracy<br>As Program Accuracy   | As Program Accuracy<br>As Program Accuracy   |
| READBACK TEMP. COEFFICIENT                             | Voltage (25 ± 5°C)   | ≤ 100ppm/ °C   | ≤ 100ppm/ °C   | ≤ 100ppm/ °C   |
| RESPONSE ( Rise/Fall )<br>TIME                         | Voltage Up(10%~90%)<br>Voltage Down(90%~10%)   | ≤ 150mS(≤95% rating load)<br>≤ 150mS(≥10% rating load)                                   | ≤ 150mS(≤95% rating load)<br>≤ 150mS(≥10% rating load)                                   | ≤ 150mS(≤95% rating load)<br>≤ 150mS(≥10% rating load)                                   |
| RECOVERY TIME ( 50% Step<br>Load Change From 25%~75% ) | CV Mode  | ≤ 2mS  | ≤ 2mS  | ≤ 2mS  |
| PROTECTION   | OVP/OCP/OTP<br>Rush Current  | √<br>√   | √<br>√   | √<br>√   |
| OUTPUT ON/OFF CONTROL                                  |  | √  | √  | √  |
| INTERFACE  | Standard : RS-232C; Option : GPIB (IEEE-488.2)...Unable to be installed simultaneously |  |  |  |
| POWER SOURCE   | AC90V~250V, 50/60Hz  |  |  |  |
| ACCESSORY  | Instruction manual x 1   |  |  |  |
| DIMENSIONS & WEIGHT                                    |  | 108(W)x141(H)x388(D)mm<br>Approx. 3.3kg  | 188(W)x141(H)x388(D)mm<br>Approx. 6.2kg  | 268(W)x141(H)x388(D)mm<br>Approx. 9.3kg  |

### ORDERING INFORMATION

**PSH-1036** 360W Programmable Switching D.C. Power Supply  
**PSH-1070** 700W Programmable Switching D.C. Power Supply  
**PSH-10100** 1000W Programmable Switching D.C. Power Supply  
**PSH-2018** 360W Programmable Switching D.C. Power Supply  
**PSH-2035** 700W Programmable Switching D.C. Power Supply  
**PSH-2050** 1000W Programmable Switching D.C. Power Supply  
**PSH-3610** 360W Programmable Switching D.C. Power Supply

**PSH-3620** 720W Programmable Switching D.C. Power Supply  
**PSH-3630** 1080W Programmable Switching D.C. Power Supply  
**PSH-6006** 360W Programmable Switching D.C. Power Supply  
**PSH-6012** 720W Programmable Switching D.C. Power Supply  
**PSH-6018** 1080W Programmable Switching D.C. Power Supply  
**Option**  
**Opt. 01:** GPIB Interface ( Factory Installed)

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