

## Constant Voltage Mode

|                         |                               |    |
|-------------------------|-------------------------------|----|
| CVH Range               | 0.000 ~ 600.0                 | V  |
| CVM Range               | 0.000 ~ 300.0                 | V  |
| CVL Range               | 0.000 ~ 60.00                 | V  |
| Transient Time Range    |                               |    |
| Fast Band(Default,Osc1) | 0.500 ~ 51.19                 | ms |
| Slow Band(Osc2,Osc3)    | 0.500 ~ 511.9                 | ms |
| Temperature Coefficient | 100 ppm / °C of Rated Voltage |    |

|         |                 |                          |
|---------|-----------------|--------------------------|
| Program | CV Resolution*2 | 1/16000 of Rated Voltage |
|         | CVH Accuracy*2  | 0.05% ± 0.600 V          |
|         | CVM Accuracy*2  | 0.05% ± 0.600 V          |
|         | CVL Accuracy*2  | 0.05% ± 0.600 V          |

|         |                |                          |
|---------|----------------|--------------------------|
| Display | CVH Resolution | 1/16000 of Rated Voltage |
|         | CVH Accuracy   | 0.05% ± 0.600 V          |
|         | CVM Accuracy   | 0.05% ± 0.600 V          |
|         | CCL Accuracy   | 0.05% ± 0.600 V          |

## Constant Current Mode

|                                    |                               |    |
|------------------------------------|-------------------------------|----|
| CCH Range                          | 0.000 ~ 300.0                 | A  |
| CCM Range                          | 0.000 ~ 150.0                 | A  |
| CCL Range                          | 0.000 ~ 30.00                 | A  |
| Transient Time Range               |                               |    |
| Fast Band(Default,Osc1)            | 0.050 ~ 51.19                 | ms |
| Slow Band(Osc2,Osc3)               | 0.500 ~ 511.9                 | ms |
| Minimum Voltage(I <sub>Max</sub> ) | 4.800                         | V  |
| Temperature Coefficient            | 100 ppm / °C of Rated Current |    |

|         |                 |                          |
|---------|-----------------|--------------------------|
| Program | CC Resolution*2 | 1/16000 of Rated Current |
|         | CCH Accuracy*2  | 0.05% ± 0.300 A          |
|         | CCM Accuracy*2  | 0.05% ± 0.300 A          |
|         | CCL Accuracy*2  | 0.05% ± 0.300 A          |

|         |               |                          |
|---------|---------------|--------------------------|
| Display | CC Resolution | 1/16000 of Rated Current |
|         | CCH Accuracy  | 0.05% ± 0.300 A          |
|         | CCM Accuracy  | 0.05% ± 0.300 A          |
|         | CCL Accuracy  | 0.05% ± 0.300 A          |

## Programmable Protection

|                            |  |   |
|----------------------------|--|---|
| Power(OPP)                 |  |   |
| Range                      | 11.81 ~ 9,450                          | W |
| Resolution                 | 1.181                                  | W |
| Accuracy                   | 0.50% ± 23.63                          | W |
| Voltage(OVP)               |  |   |
| Range                      | 0.394 ~ 630.0                          | V |
| Resolution                 | 0.039                                  | V |
| Accuracy                   | 0.20% ± 0.788                          | V |
| Current(OCF)               |  |   |
| Range                      | 0.197 ~ 315.0                          | A |
| Resolution                 | 0.020                                  | A |
| Accuracy                   | 0.20% ± 0.394                          | A |
| Under Voltage Lockout(UVL) |  |   |
| Mode                       | Input On / Continuous                  |   |
| Range                      | 0.450 ~ 600.0                          | V |
| Resolution                 | 0.150                                  | V |
| Accuracy                   | 2.50% ± 0.750                          | V |
| Anti-Oscillation           | Default / Osc1 / Osc2 / Osc3 / Disable |   |

## Protection

|                                  |   |    |
|----------------------------------|---|----|
| Over Power Protection(OP)        | 9,450 ± 180.0                           | W  |
| Over Voltage Protection(OV)      | 630.0 ± 12.00                           | V  |
| Over Current Protection(OC)      | 330.0 ± 3.143                           | A  |
| Over Temperature Protection(OTP) | 50.00 ± 5.000                           | °C |
| Reverse Maximum Current(RCP)     | 330.0                                   | A  |
| Short Maximum Current            | 306.0                                   | A  |
| Remote Inhibit(RI)               | Short                                   |    |
| Fault Indicator                  | SPDT Relay (30Vdc/0.5A or 125Vac/0.25A) |    |

## Dielectric Strength

|                                  |                    |
|----------------------------------|--------------------|
| Primary Circuit To Chassis       | 1500 Vac for 1 min |
| Primary Circuit To Load Terminal | 1500 Vac for 1 min |
| Load Terminal To Chassis         | 1500 Vdc for 1 min |

## Constant Power Mode

|                         |                             |   |
|-------------------------|-----------------------------|---|
| CPH Range               | 0.000 ~ 9,000               | W |
| CPM Range               | 0.000 ~ 4,500               | W |
| @ lin                   | ≤ 150.0                     | A |
| CPL Range               | 0.000 ~ 900.0               | W |
| @ lin                   | ≤ 30.00                     | A |
| Transient Time Range    | Same As CC Mode             |   |
| Temperature Coefficient | 300 ppm / °C of Rated Power |   |

|         |                 |                        |
|---------|-----------------|------------------------|
| Program | CP Resolution*2 | 1/16000 of Rated Power |
|         | CPH Accuracy*2  | 1.00% ± 45.00 W        |
|         | @lin            | > 15.00 A              |
|         | & Vin           | > 60.00 V              |
|         | CPM Accuracy*2  | 1.00% ± 45.00 W        |
|         | @lin            | > 3.000 A              |
|         | & Vin           | > 60.00 V              |
|         | CPL Accuracy*2  | 1.00% ± 45.00 W        |
|         | @lin            | > 0.300 A              |
|         | & Vin           | > 120.0 V              |

## Constant Resistance Mode

|                         |                                    |   |
|-------------------------|------------------------------------|---|
| CRH Range               | 20.00 ~ 1,000                      | Ω |
| @ lin                   | ≤ 30.00                            | A |
| CRM Range               | 2.000 ~ 500.0                      | Ω |
| CRL Range               | 0.0160 ~ 2.000                     | Ω |
| Transient Time Range    |                                    |   |
| CRM / CRH               | Same As CC Mode                    |   |
| CRL                     | Same As CV Mode                    |   |
| Temperature Coefficient |                                    |   |
| CRM / H                 | 300 ppm / °C of Minimum Resistance |   |
| CRL                     | 300 ppm / °C of Maximum Resistance |   |

|         |                 |                        |
|---------|-----------------|------------------------|
| Program | CR Resolution*2 | 1/16000 Of Rated Value |
|         | CRH Accuracy*2  | 1.00% ± 0.250 mS       |
|         | @lin            | > 0.300 A              |
|         | & Vin           | > 120.0 V              |
|         | CRM Accuracy*2  | 1.00% ± 1.000 mS       |
|         | @lin            | > 3.000 A              |
|         | & Vin           | > 60.00 V              |
|         | CRL Accuracy*2  | 1.00% ± 2.000 mΩ       |
|         | @lin            | > 30.00 A              |
|         | & Vin           | > 60.00 V              |

## External Programming Mode

|                         |   |
|-------------------------|---|
| Analog Program          | 0~10 Volts Input yields                     |
|                         | 0~selected full scaled loading in all modes |
| Accuracy                | Same As Internal ± 0.1% Rating              |
| Input Impedance         | 400 kΩ ± 1 %                                |
| BandWidth(-3dB)         | Limited By Internal Transient Time          |
| Monitor output Signal   | 0~10 Volts output for 0~full scaled Value   |
| VMON Accuracy           | 0.10% ± 0.600 V                             |
| IMON Accuracy           | 0.10% ± 0.300 A                             |
| Transient Mode          |   |
| Frequency Range         | 0.100 ~ 10,000 Hz                           |
| Accuracy                | 0.1%  |
| Duty Range              | 1.000 ~ 100.0 %                             |
| Accuracy                | 0.1%  |
| Transient Time Accuracy | 10.0% ± 50% of Minimum Time                 |
| Remote Interface        | GPIOB / RS-232 / ETHERNET / USB             |

## General

|                                  |  |
|----------------------------------|--|
| Fluid                            |  |
| Valve                            | Normal Close(Power On Thermal Control) |
| Flow Rate(Pmax)                  | ≥ 2.3 GPM @ 15°C Fluid In              |
| Derating for higher temperatures | (-)%3 Rated Power / °C                 |
| Pressure                         | <80 PSI                                |
| Pipe Size                        | 1/2" NPT Female                        |
| Decondensation                   | Valve Thermal Control                  |
| AC Input                         | 95~240 Vac 48~62 Hz                    |
| Power Consumption                | 120 VA                                 |
| Operating Temperature            | 5 °C ~ 40 °C                           |
| Dimension                        | 27.5"(L)x17"(W)x3.5"(H)                |

|                        |        |         |
|------------------------|--------|---------|
| Weight                 | 80 lbs | 36.3 kg |
| Approx.Shipping Weight | 95 lbs | 43.1 kg |

PLW9K-600-300 (600V,300A,9KW) OPERATIONAL CURVE

