

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 |

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|---------|----------------|--------------------------|
| 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 ~ 600.0 | A |
| CCM Range | 0.000 ~ 300.0 | A |
| CCL Range | 0.000 ~ 60.00 | 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 _{Max}) | 2.400 | V |
| Temperature Coefficient | 100 ppm / °C of Rated Current | |

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|---------|-----------------|--------------------------|
| Program | CC Resolution*2 | 1/16000 of Rated Current |
| | CCH Accuracy*2 | 0.05% ± 0.600 A |
| | CCM Accuracy*2 | 0.05% ± 0.600 A |
| | CCL Accuracy*2 | 0.05% ± 0.600 A |

| | | |
|---------|---------------|--------------------------|
| Display | CC Resolution | 1/16000 of Rated Current |
| | CCH Accuracy | 0.05% ± 0.600 A |
| | CCM Accuracy | 0.05% ± 0.600 A |
| | CCL Accuracy | 0.05% ± 0.600 A |

Programmable Protection

| | | |
|----------------------------|--|----|
| Power(OPP) | | |
| Range | 0.131 ~ 105.0 | kW |
| Resolution | 13.13 | W |
| Accuracy | 0.50% ± 262.5 | W |
| Voltage(OVP) | | |
| Range | 0.394 ~ 630.0 | V |
| Resolution | 0.039 | V |
| Accuracy | 0.20% ± 0.788 | V |
| Current(OCP) | | |
| Range | 0.394 ~ 630.0 | A |
| Resolution | 0.039 | A |
| Accuracy | 0.20% ± 0.788 | 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

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|----------------------------------|---|----|
| Over Power Protection(OP) | 105.0 ± 2.000 | kW |
| Over Voltage Protection(OV) | 630.0 ± 12.00 | V |
| Over Current Protection(OC) | 660.0 ± 6.286 | A |
| Over Temperature Protection(OTP) | 50.00 ± 5.000 | °C |
| Reverse Maximum Current(RCP) | 660.0 | A |
| Short Maximum Current | 612.0 | A |
| Remote Inhibit(RI) | Short | |
| Fault Indicator | SPDT Relay (30Vdc/0.5A or 125Vac/0.25A) | |

Dielectric Strength

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|----------------------------------|--------------------|
| 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

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|-------------------------|-----------------------------|----|
| CPH Range | 0.000 ~ 100.0 | kW |
| CPM Range | 0.000 ~ 50.00 | kW |
| @ lin | ≤ 300.0 | A |
| CPL Range | 0.000 ~ 10.00 | kW |
| @ lin | ≤ 60.00 | 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% ± 0.500 kW |
| | @lin | > 30.00 A |
| | & Vin | > 60.00 V |
| | CPM Accuracy*2 | 1.00% ± 0.500 kW |
| | @lin | > 6.000 A |
| | & Vin | > 60.00 V |
| | CPL Accuracy*2 | 1.00% ± 0.500 kW |
| | @lin | > 0.600 A |
| | & Vin | > 120.0 V |

Constant Resistance Mode

| | | |
|-----------|----------------|---|
| CRH Range | 10.00 ~ 500.0 | Ω |
| @ lin | ≤ 60.00 | A |
| CRM Range | 1.000 ~ 250.0 | Ω |
| CRL Range | 0.0040 ~ 1.000 | Ω |

| | |
|----------------------|-----------------|
| Transient Time Range | Same As CC Mode |
| CRM / CRH | Same As CV Mode |
| CRL | |

| | |
|-------------------------|------------------------------------|
| 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% ± 0.500 mS |
| | @lin | > 0.600 A |
| | & Vin | > 120.0 V |
| | CRM Accuracy*2 | 1.00% ± 2.000 mS |
| | @lin | > 6.000 A |
| | & Vin | > 60.00 V |
| | CRL Accuracy*2 | 1.00% ± 1.000 mΩ |
| | @lin | > 60.00 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% ± 0.600 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) | ≥ 25.0 GPM @ 15°C Fluid In |
| Derating for higher temperatures | (-)3% Rated Power / °C |
| Pressure | <80 PSI |
| Pipe Size | 1-1/4" NPT Female |
| Decondensation | Valve Thermal Control |
| AC Input | 95~240 Vac 48~62 Hz |
| Power Consumption | 450 VA @125Vac |
| Operating Temperature | 5 °C ~ 40 °C |
| Dimension | 38.0"(L)x23.5"(W)x60.6"(H)--30U Cabinet |

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|------------------------|-----------|----------|
| Approx.Shipping Weight | 1,000 lbs | 453.6 kg |
|------------------------|-----------|----------|

PLW100K-600-600 (600V,600A,100KW) OPERATIONAL CURVE

