

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 ~ 800.0 | A |
| CCM Range | 0.000 ~ 400.0 | A |
| CCL Range | 0.000 ~ 80.00 | 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}) | 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% ± 0.800 | A |
| CCM Accuracy*2 | 0.05% ± 0.800 | A |
| CCL Accuracy*2 | 0.05% ± 0.800 | A |
| Display | | |
| CC Resolution | 1/16000 of Rated Current | |
| CCH Accuracy | 0.05% ± 0.800 | A |
| CCM Accuracy | 0.05% ± 0.800 | A |
| CCL Accuracy | 0.05% ± 0.800 | A |

Programmable Protection

| | | |
|----------------------------|--|---|
| Power(OPP) | | |
| Range | 31.50 ~ 25,200 | W |
| Resolution | 3.150 | W |
| Accuracy | 0.50% ± 63.00 | W |
| Voltage(OVP) | | |
| Range | 0.394 ~ 630.0 | V |
| Resolution | 0.039 | V |
| Accuracy | 0.20% ± 0.788 | V |
| Current(OC) | | |
| Range | 0.525 ~ 840.0 | A |
| Resolution | 0.053 | A |
| Accuracy | 0.20% ± 1.050 | 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) | 25,200 ± 480.0 | W |
| Over Voltage Protection(OV) | 630.0 ± 12.00 | V |
| Over Current Protection(OC) | 880.0 ± 8.381 | A |
| Over Temperature Protection(OTP) | 50.00 ± 5.000 | °C |
| Reverse Maximum Current(RCP) | 880.0 | A |
| Short Maximum Current | 816.0 | 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 ~ 24,000 | W |
| CPM Range | 0.000 ~ 12,000 | W |
| @ lin | ~ 400.0 | A |
| CPL Range | 0.000 ~ 2,400 | W |
| @ lin | ≤ 80.00 | 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% ± 120.0 | W |
| @lin | > 40.00 | A |
| & Vin | > 60.00 | V |
| CPM Accuracy*2 | 1.00% ± 120.0 | W |
| @lin | > 8.000 | A |
| & Vin | > 60.00 | V |
| CPL Accuracy*2 | 1.00% ± 120.0 | W |
| @lin | > 0.800 | A |
| & Vin | > 120.0 | V |

Constant Resistance Mode

| | | |
|-------------------------|------------------------------------|----|
| CRH Range | 7.500 ~ 375.0 | Ω |
| @ lin | ≤ 80.00 | A |
| CRM Range | 0.750 ~ 187.5 | Ω |
| CRL Range | 0.0060 ~ 0.750 | 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% ± 0.667 | mS |
| @lin | > 0.800 | A |
| & Vin | > 120.0 | V |
| CRM Accuracy*2 | 1.00% ± 2.667 | mS |
| @lin | > 8.000 | A |
| & Vin | > 60.00 | V |
| CRL Accuracy*2 | 1.00% ± 0.750 | mΩ |
| @lin | > 80.00 | A |
| & Vin | > 0.600 | 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% ± 0.800 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 |

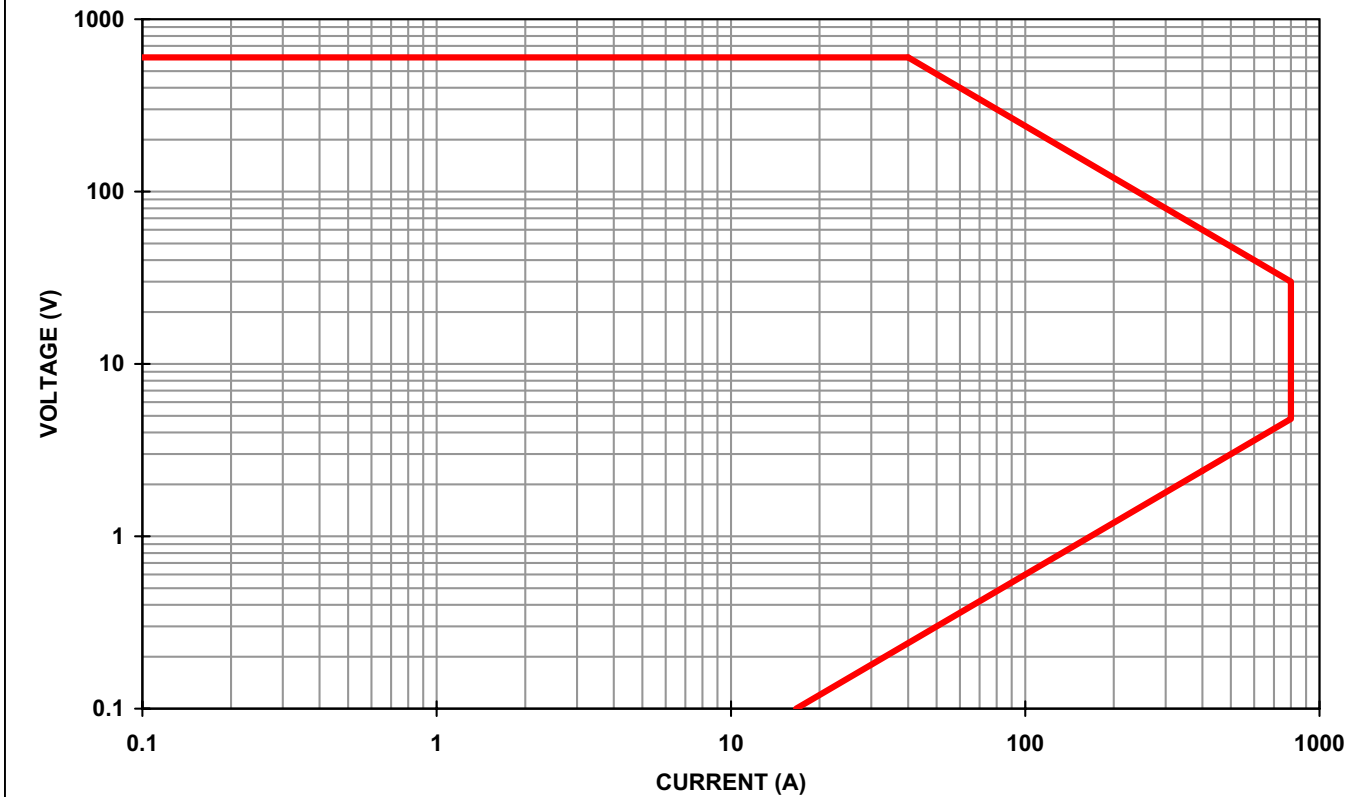
General

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|----------------------------------|--|
| Fluid | |
| Valve | Normal Close(Power On Thermal Control) |
| Flow Rate(Pmax) | ≥ 6.0 GPM @ 15°C Fluid In |
| Derating for higher temperatures | (-)%3 Rated Power / °C |
| Pressure | <80 PSI |
| Pipe Size | Dual 1/2"(3/4"-Manifold) NPT Female |
| Decondensation | Valve Thermal Control |
| AC Input | 95~240 Vac 48~62 Hz |
| Power Consumption | 160 VA |
| Operating Temperature | 5°C ~ 40°C |
| Dimension | 27.5"(L)x17"(W)x7.0"(H) |
| Weight | 160 lbs 72.6 kg |
| Approx.Shipping Weight | 180 lbs 81.6 kg |

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified
*2 Transient Mode Specification must be x2
AMREL reserves the right to change limits, test conditions, and dimensions without notice



PLW24K-600-800 (600V,800A,24KW) OPERATIONAL CURVE



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