

Constant Voltage Mode

| | | |
|-------------------------|-------------------------------|----|
| CVH Range | 0.000 ~ 60.00 | V |
| CVM Range | 0.000 ~ 30.00 | V |
| CVL Range | 0.000 ~ 6.000 | 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% ± 0.060 V | |
| CVM Accuracy*2 | 0.05% ± 0.060 V | |
| CVL Accuracy*2 | 0.05% ± 0.060 V | |
| Display | | |
| CVH Resolution | 1/16000 of Rated Voltage | |
| CVH Accuracy | 0.05% ± 0.060 V | |
| CVM Accuracy | 0.05% ± 0.060 V | |
| CCL Accuracy | 0.05% ± 0.060 V | |

Constant Current Mode

| | | |
|------------------------------------|-------------------------------|----|
| CCH Range | 0.000 ~ 1,500 | A |
| CCM Range | 0.000 ~ 750.0 | A |
| CCL Range | 0.000 ~ 150.0 | 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}) | 0.600 V | |
| Temperature Coefficient | 100 ppm / °C of Rated Current | |
| Program | | |
| CC Resolution*2 | 1/16000 of Rated Current | |
| CCH Accuracy*2 | 0.05% ± 1.500 A | |
| CCM Accuracy*2 | 0.05% ± 1.500 A | |
| CCL Accuracy*2 | 0.05% ± 1.500 A | |
| Display | | |
| CC Resolution | 1/16000 of Rated Current | |
| CCH Accuracy | 0.05% ± 1.500 A | |
| CCM Accuracy | 0.05% ± 1.500 A | |
| CCL Accuracy | 0.05% ± 1.500 A | |

Programmable Protection

| | | |
|----------------------------|--|---|
| Power(OPP) | | |
| Range | 15.75 ~ 12,600 | W |
| Resolution | 1.575 W | |
| Accuracy | 0.50% ± 31.50 W | |
| Voltage(OVP) | | |
| Range | 0.039 ~ 63.00 | V |
| Resolution | 0.004 V | |
| Accuracy | 0.20% ± 0.079 V | |
| Current(OC) | | |
| Range | 0.984 ~ 1,575 | A |
| Resolution | 0.098 A | |
| Accuracy | 0.20% ± 1.969 A | |
| Under Voltage Lockout(UVL) | | |
| Mode | Input On / Continuous | |
| Range | 0.045 ~ 60.00 | V |
| Resolution | 0.015 V | |
| Accuracy | 2.50% ± 0.075 V | |
| Anti-Oscillation | Default / Osc1 / Osc2 / Osc3 / Disable | |

Protection

| | | |
|----------------------------------|---|----|
| Over Power Protection(OP) | 12,600 ± 240.0 | W |
| Over Voltage Protection(OV) | 63.00 ± 1.200 | V |
| Over Current Protection(OC) | 1,650 ± 15.71 | A |
| Over Temperature Protection(OTP) | 50.00 ± 5.000 | °C |
| Reverse Maximum Current(RCP) | 1,650 | A |
| Short Maximum Current | 1,530 | 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 ~ 12,000 | W |
| CPM Range | 0.000 ~ 6,000 | W |
| @ lin | ≤ 750.0 | A |
| CPL Range | 0.000 ~ 1,200 | W |
| @ lin | ≤ 150.0 | 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% ± 60.00 W | |
| @lin | > 75.00 A | |
| & Vin | > 6.000 V | |
| CPM Accuracy*2 | 1.00% ± 60.00 W | |
| @lin | > 15.00 A | |
| & Vin | > 6.000 V | |
| CPL Accuracy*2 | 1.00% ± 60.00 W | |
| @lin | > 1.500 A | |
| & Vin | > 12.00 V | |

Constant Resistance Mode

| | | |
|-------------------------|------------------------------------|---|
| CRH Range | 0.4000 ~ 20.00 | Ω |
| @ lin | ≤ 150.0 | A |
| CRM Range | 0.0400 ~ 10.00 | Ω |
| CRL Range | 0.0004 ~ 0.0400 | 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% ± 12.50 mS | |
| @lin | > 1.500 A | |
| & Vin | > 12.00 V | |
| CRM Accuracy*2 | 1.00% ± 50.00 mS | |
| @lin | > 15.00 A | |
| & Vin | > 6.000 V | |
| CRL Accuracy*2 | 1.00% ± 0.040 mS | |
| @lin | > 150.0 A | |
| & Vin | > 0.060 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% ± 0.060 V | |
| IMON Accuracy | 0.10% ± 1.500 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) | ≥ 3.0 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 |

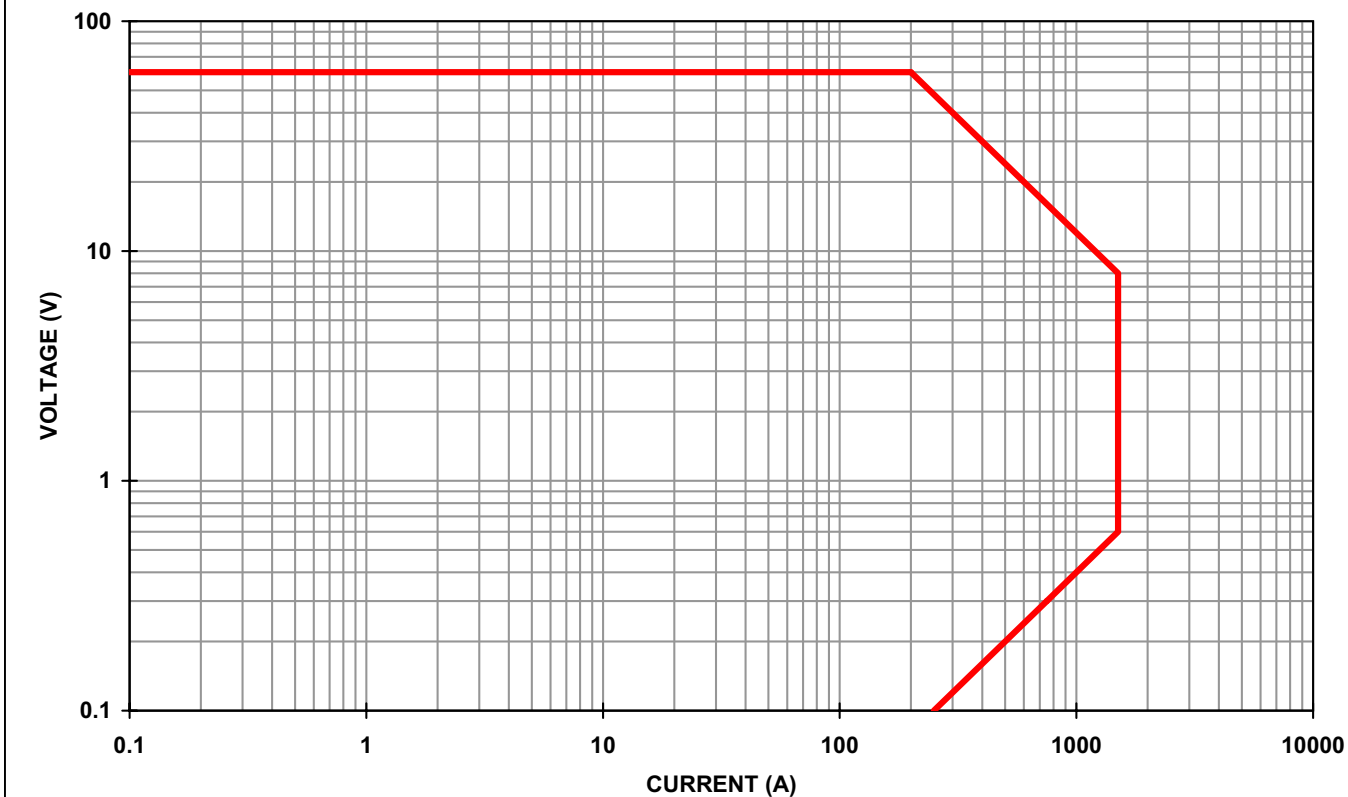
Ver 6.1

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*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



PLW12K-60-1500 (60V,1500A,12KW) OPERATIONAL CURVE



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