

## Constant Voltage Mode

|                         |                               |    |
|-------------------------|-------------------------------|----|
| CVH Range               | 0.000 ~ 400.0                 | V  |
| CVM Range               | 0.000 ~ 200.0                 | V  |
| CVL Range               | 0.000 ~ 40.00                 | 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% ± 0.400 V          |
|         | CVM Accuracy*2  | 0.05% ± 0.400 V          |
|         | CVL Accuracy*2  | 0.05% ± 0.400 V          |

|         |                |                          |
|---------|----------------|--------------------------|
| Display | CVH Resolution | 1/16000 of Rated Voltage |
|         | CVH Accuracy   | 0.05% ± 0.400 V          |
|         | CVM Accuracy   | 0.05% ± 0.400 V          |
|         | CCL Accuracy   | 0.05% ± 0.400 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> ) | 3.000                         | 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                      | 3.438 ~ 2,750                          | W |
| Resolution                 | 0.344                                  | W |
| Accuracy                   | 0.50% ± 6.875                          | W |
| Voltage(OVP)               |  |   |
| Range                      | 0.263 ~ 420.0                          | V |
| Resolution                 | 0.026                                  | V |
| Accuracy                   | 0.20% ± 0.525                          | V |
| Current(OCP)               |  |   |
| 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                      | 0.300 ~ 400.0                          | V |
| Resolution                 | 0.100                                  | V |
| Accuracy                   | 2.50% ± 0.500                          | V |
| Anti-Oscillation           | Default / Osc1 / Osc2 / Osc3 / Disable |   |

## Protection

|                                  |   |    |
|----------------------------------|---|----|
| Over Power Protection(OP)        | 2,750 ± 52.38                           | W  |
| Over Voltage Protection(OV)      | 420.0 ± 8.000                           | V  |
| Over Current Protection(OC)      | 330.0 ± 3.143                           | A  |
| Over Temperature Protection(OTP) | 90.00 ± 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 ~ 2,500               | W |
| CPM Range               | 0.000 ~ 1,250               | W |
|                         | @ lin ≤ 150.0               | A |
| CPL Range               | 0.000 ~ 250.0               | 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% ± 12.50 W        |
|         |                 | @lin > 15.00 A         |
|         |                 | & Vin > 40.00 V        |
|         | CPM Accuracy*2  | 1.00% ± 12.50 W        |
|         |                 | @lin > 3.000 A         |
|         |                 | & Vin > 40.00 V        |
|         | CPL Accuracy*2  | 1.00% ± 12.50 W        |
|         |                 | @lin > 0.300 A         |
|         |                 | & Vin > 80.00 V        |

## Constant Resistance Mode

|           |                |   |
|-----------|----------------|---|
| CRH Range | 13.33 ~ 666.7  | Ω |
|           | @ lin ≤ 30.00  | A |
| CRM Range | 1.333 ~ 333.3  | Ω |
| CRL Range | 0.0100 ~ 1.333 | 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% ± 0.375 mS       |
|         |                 | @lin > 0.300 A         |
|         |                 | & Vin > 80.00 V        |
|         | CRM Accuracy*2  | 1.00% ± 1.500 mS       |
|         |                 | @lin > 3.000 A         |
|         |                 | & Vin > 40.00 V        |
|         | CRL Accuracy*2  | 1.00% ± 1.333 mΩ       |
|         |                 | @lin > 30.00 A         |
|         |                 | & Vin > 0.400 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% ± 0.400 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

Derating for higher temperatures (-)1.67% Rated Power / °C

|                       |                          |
|-----------------------|--------------------------|
| AC Input              | 95~240 Vac 48~62 Hz      |
| Power Consumption     | 130 VA                   |
| Operating Temperature | 5 °C ~ 40 °C             |
| Dimension             | 24.5"(L)x17"(W)x5.25"(H) |

Weight 70 lbs 31.8 kg

Approx.Shipping Weight 108 lbs 49.0 kg

PLA2.5K-400-300 (400V,300A,2.5KW) OPERATIONAL CURVE

