

PLA15K-150-300

| Constant Voltage Mode | | | | Constant Power Mode | | | |
|------------------------------------|-----------------------------------------|-------|---------------------|----------------------------------|-----------------------------------------------|--------|---------------------|
| CVH Range | 0.000 | ~ | 150.0 V | CPH Range | 0.000 | ~ | 15,000 W |
| CVM Range | 0.000 | ~ | 75.00 V | CPM Range | 0.000 | ~ | 7,500 W |
| CVL Range | 0.000 | ~ | 15.00 V | | @ lin | ≤ | 150.0 A |
| Transient Time Range | | | | CPL Range | 0.000 | ~ | 1,500 W |
| Fast Band(Default,Osc1) | 0.500 | ~ | 51.19 ms | | @ lin | ≤ | 30.00 A |
| Slow Band(Osc2,Osc3) | 0.500 | ~ | 511.9 ms | Transient Time Range | Same As CC Mode | | |
| Temperature Coefficient | 100 ppm/°C of Rated Voltage | | | Temperature Coefficient | 300 ppm/°C of Rated Power | | |
| Program | | | | Program | | | |
| CVH Resolution*2 | | 9.375 | mV | CPH Resolution*2 | | 0.938 | W |
| CVM Resolution*2 | | 4.688 | mV | CPM Resolution*2 | | 0.469 | W |
| CVL Resolution*2 | | 0.938 | mV | CPL Resolution*2 | | 0.094 | W |
| CVH Accuracy*2 | 0.05% | ± | 0.150 V | CPH Accuracy*2 | 1.00% | ± | 75.00 W |
| CVM Accuracy*2 | 0.05% | ± | 0.150 V | | @lin | > | 15.00 A |
| CVL Accuracy*2 | 0.05% | ± | 0.150 V | | & Vin | > | 15.00 V |
| Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time | CPM Accuracy*2 | 1.00% | ± | 75.00 W |
| Readback | | | | | @lin | > | 3.000 A |
| CVH Resolution | | 9.375 | mV | | & Vin | > | 15.00 V |
| CVM Resolution | | 4.688 | mV | CPL Accuracy*2 | 1.00% | ± | 75.00 W |
| CVL Resolution | | 0.938 | mV | | @lin | > | 0.300 A |
| CVH Accuracy | 0.05% | ± | 0.150 V | | & Vin | > | 30.00 V |
| CVM Accuracy | 0.05% | ± | 0.150 V | Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time |
| CCL Accuracy | 0.05% | ± | 0.150 V | Constant Resistor Mode | | | |
| Constant Current Mode | | | | CRH Range | 5.000 | ~ | 250.0 Ohm |
| CCH Range | 0.000 | ~ | 300.0 A | | @ lin | ≤ | 30.00 A |
| CCM Range | 0.000 | ~ | 150.0 A | CRM Range | 0.500 | ~ | 125.0 Ohm |
| CCL Range | 0.000 | ~ | 30.00 A | CRL Range | 0.0040 | ~ | 0.500 Ohm |
| Transient Time Range | | | | Transient Time Range | Same As CC Mode | | |
| Fast Band(Default,Osc1) | 0.050 | ~ | 51.19 ms | CRM/CRH | Same As CV Mode | | |
| Slow Band(Osc2,Osc3) | 0.500 | ~ | 511.9 ms | CRL | | | |
| Minimum Voltage(I _{Max}) | | 1.200 | V | Temperature Coefficient | 300 ppm/°C of Minimum Resistance | | |
| Temperature Coefficient | 100 ppm/°C of Rated Current | | | CRM/H | 300 ppm/°C of Maximum Resistance | | |
| | | | | CRL | | | |
| Program | | | | Program | | | |
| CCH Resolution*2 | | 18.75 | mA | CRH Resolution*2 | | 0.013 | mS |
| CCM Resolution*2 | | 9.375 | mA | CRM Resolution*2 | | 0.125 | mS |
| CCL Resolution*2 | | 1.875 | mA | CRL Resolution*2 | | 0.031 | mΩ |
| CCH Accuracy*2 | 0.05% | ± | 0.300 A | CRH Accuracy*2 | 1.00% | ± | 1.000 mS |
| CCM Accuracy*2 | 0.05% | ± | 0.300 A | | @lin | > | 0.300 A |
| CCL Accuracy*2 | 0.05% | ± | 0.300 A | | & Vin | > | 30.00 V |
| Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time | CRM Accuracy*2 | 1.00% | ± | 4.000 mS |
| Readback | | | | | @lin | > | 3.000 A |
| CCH Resolution | | 18.75 | mA | | & Vin | > | 15.00 V |
| CCM Resolution | | 9.375 | mA | CRL Accuracy*2 | 1.00% | ± | 1.000 mΩ |
| CCL Resolution | | 1.875 | mA | | @lin | > | 30.00 A |
| CCH Accuracy | 0.05% | ± | 0.300 A | | & Vin | > | 0.150 V |
| CCM Accuracy | 0.05% | ± | 0.300 A | Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time |
| CCL Accuracy | 0.05% | ± | 0.300 A | External | | | |
| Programmable Protection | | | | Program | 0~10 Volts Input yields | | |
| Power(OPP) | | | | | 0~selected full scaled loading in all modes | | |
| Range | 20.63 | ~ | 16,500 W | Accuracy | Same As Internal | ± 0.1% | Rating |
| Resolution | | 2.063 | W | Input Impedance | 400.0 | ± | 1 % KΩ |
| Accuracy | 0.50% | | 41.25 W | BandWidth(-3dB) | Limited By Internal Adjustable Transient Time | | |
| Voltage(OVP) | | | | Monitor output Signal | 0~10 Volts output for 0~full scaled Value | | |
| Range | 0.098 | ~ | 157.5 V | VMON Accuracy | 0.10% | ± | 0.150 V |
| Resolution | | 0.010 | V | IMON Accuracy | 0.10% | ± | 0.300 A |
| Accuracy | 0.20% | ± | 0.197 V | Others | | | |
| Current(OCP) | | | | Transient Mode | | | |
| Range | 0.197 | ~ | 315.0 A | Frequency Range | 0.100 | ~ | 10,000 Hz |
| Resolution | | 0.020 | A | Accuracy | | | 0.1% |
| Accuracy | 0.20% | ± | 0.394 A | Duty Range | 1.000 | ~ | 100.0 % |
| Under Voltage Lockout(UVL) | | | | Accuracy | | | 0.1% |
| Mode | Input On/Continuous | | | Remote Interface | GPIO/RS-232/ETHERNET/USB | | |
| Range | 0.113 | ~ | 150.0 V | Derating for higher temperatures | (-)1.67% Rated Power/°C | | |
| Resolution | | 0.038 | V | General | | | |
| Accuracy | 2.00% | ± | 0.188 V | AC Input | 85~240 Vac 48~62 Hz | | |
| Anti-Oscillation | Default/Osc1/Osc2/Osc3 | | | Power Consumption | 200 VA | | |
| Protection | | | | Operating Temperature | 5 | ~ | 40 °C |
| Over Power Protection(OP) | 16,500 | ± | 314.3 W | Dimension | 23.5"(W)x30.5"(H)x38"(D)--15U CABINET | | |
| Over Voltage Protection(OV) | 157.5 | ± | 3.000 V | Weight | About 470 LBS | | |
| Over Current Protection(OC) | 330.0 | ± | 3.143 A | Dielectric Strength | | | |
| Over Temperature Protection(OTP) | 90.00 | ± | 5.000 °C | Primary Circuit To Chassis | 1500 VAC for 1 MIN | | |
| Reverse Maximum Current(RCP) | 330.0 | | A | Primary Circuit To Load Terminal | 1500 VAC for 1 MIN | | |
| Short Maximum Current | | | 306.0 A | Load Terminal To Chassis | 1500 VDC for 1 MIN | | |
| Remote Inhibit(RI) | Short | | | Protection | | | |
| Fault Indicator | SPDT Relay (30VDC/0.5A or 125VAC/0.25A) | | | Over Power Protection(OP) | 16,500 | ± | 314.3 W |
| Dielectric Strength | | | | Over Voltage Protection(OV) | 157.5 | ± | 3.000 V |
| Primary Circuit To Chassis | 1500 VAC for 1 MIN | | | Over Current Protection(OC) | 330.0 | ± | 3.143 A |
| Primary Circuit To Load Terminal | 1500 VAC for 1 MIN | | | Over Temperature Protection(OTP) | 90.00 | ± | 5.000 °C |
| Load Terminal To Chassis | 1500 VDC for 1 MIN | | | 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) | | |

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

Ver 1.0 Date : 09/15/05

*2 Transient Mode Specification must be x2

AMREL reserves the right to change limits, test conditions, and dimensions without notice

R&D-SPEC-PLA15K-150-300

Rev.: Original

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"Uncontrolled Copy" if you printed

PLA15K-150-300 (150V,300A,15KW) OPERATIONAL CURVE

