

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 _{Max})	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(OC)		
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		
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% ± 0.375	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

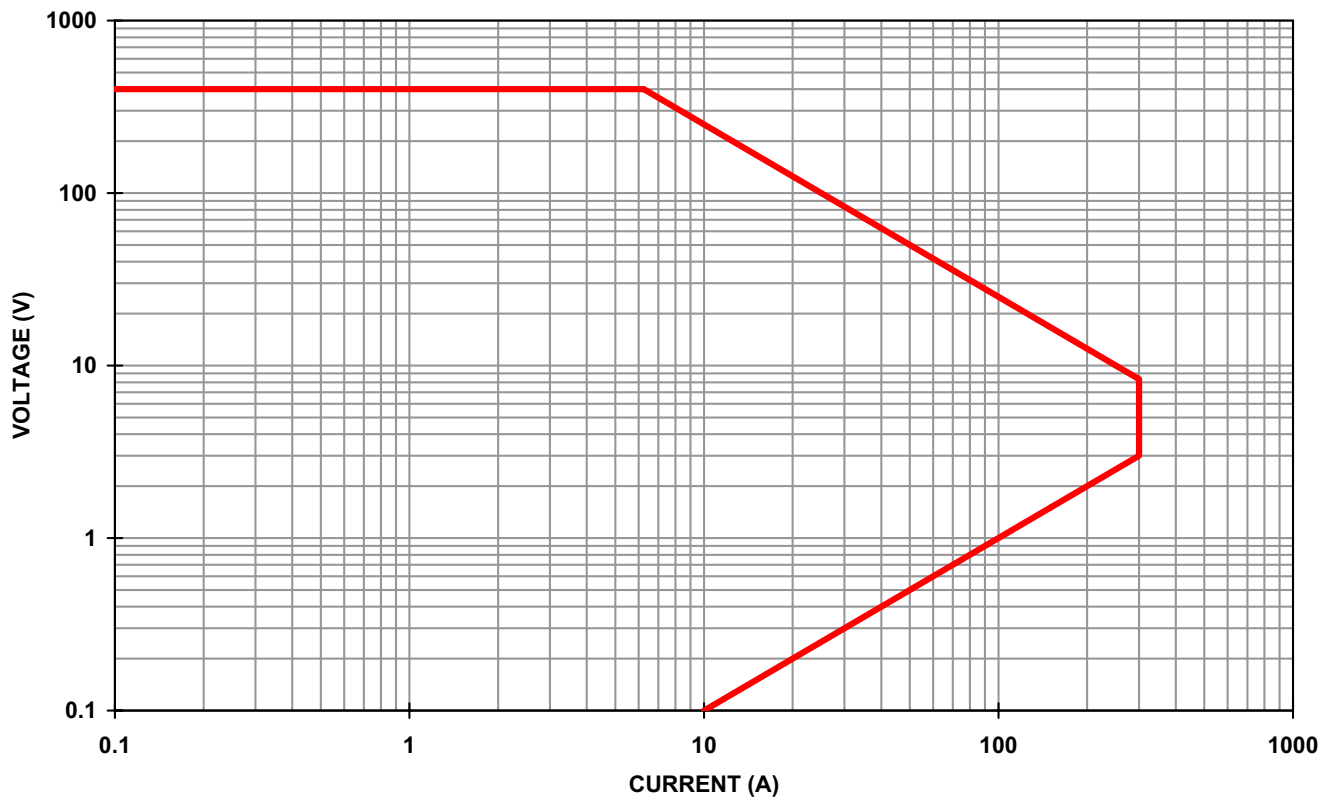
Derating for higher temperatures	(-).167% Rated Power / °C
AC Input	95~240 Vac 48~62 Hz
Power Consumption	130 VA
Operating Temperature	5 °C ~ 40 °C
Dimension	24.5"(L)x17"(W)x5.25"(H)
Weight	70 lbs 31.8 kg
Approx.Shipping Weight	108 lbs 49.0 kg

Ver 4.1 Date: 11/01/07

*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



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



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