

### Constant Voltage Mode

CVH Range	0.000 ~ 120.0	V
CVM Range	0.000 ~ 60.00	V
CVL Range	0.000 ~ 12.00	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	
<b>Program</b>		
CV Resolution*2	1/16000 of Rated Voltage	
CVH Accuracy*2	0.05% ± 0.120 V	
CVM Accuracy*2	0.05% ± 0.120 V	
CVL Accuracy*2	0.05% ± 0.120 V	
<b>Display</b>		
CVH Resolution	1/16000 of Rated Voltage	
CVH Accuracy	0.05% ± 0.120 V	
CVM Accuracy	0.05% ± 0.120 V	
CCL Accuracy	0.05% ± 0.120 V	

### Constant Current Mode

CCH Range	0.000 ~ 400.0	A
CCM Range	0.000 ~ 200.0	A
CCL Range	0.000 ~ 40.00	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> )	1.200 V	
Temperature Coefficient	100 ppm / °C of Rated Current	
<b>Program</b>		
CC Resolution*2	1/16000 of Rated Current	
CCH Accuracy*2	0.05% ± 0.400 A	
CCM Accuracy*2	0.05% ± 0.400 A	
CCL Accuracy*2	0.05% ± 0.400 A	
<b>Display</b>		
CC Resolution	1/16000 of Rated Current	
CCH Accuracy	0.05% ± 0.400 A	
CCM Accuracy	0.05% ± 0.400 A	
CCL Accuracy	0.05% ± 0.400 A	

### Programmable Protection

Power(OPP)		
Range	2.750 ~ 2,200	W
Resolution	0.275 W	
Accuracy	0.50% ± 5.500 W	
Voltage(OVP)		
Range	0.079 ~ 126.0	V
Resolution	0.008 V	
Accuracy	0.20% ± 0.158 V	
Current(OCP)		
Range	0.263 ~ 420.0	A
Resolution	0.026 A	
Accuracy	0.20% ± 0.525 A	
Under Voltage Lockout(UVL)		
Mode	Input On / Continuous	
Range	0.090 ~ 120.0	V
Resolution	0.030 V	
Accuracy	2.50% ± 0.150 V	
Anti-Oscillation	Default / Osc1 / Osc2 / Osc3 / Disable	

### Protection

Over Power Protection(OP)	2,200 ± 41.90	W
Over Voltage Protection(OV)	126.0 ± 2.400	V
Over Current Protection(OC)	440.0 ± 4.190	A
Over Temperature Protection(OTP)	90.00 ± 5.000	°C
Reverse Maximum Current(RCP)	440.0	A
Short Maximum Current	408.0 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 ~ 2,000	W
CPM Range	0.000 ~ 1,000	W
	@ lin	≤ 200.0 A
CPL Range	0.000 ~ 200.0	W
	@ lin	≤ 40.00 A
Transient Time Range		
Same As CC Mode		
Temperature Coefficient	300 ppm / °C of Rated Power	
<b>Program</b>		
CP Resolution*2	1/16000 of Rated Power	
CPH Accuracy*2	1.00% ± 10.00 W	
	@lin	> 20.00 A
	& Vin	> 12.00 V
CPM Accuracy*2	1.00% ± 10.00 W	
	@lin	> 4.000 A
	& Vin	> 12.00 V
CPL Accuracy*2	1.00% ± 10.00 W	
	@lin	> 0.400 A
	& Vin	> 24.00 V

### Constant Resistance Mode

CRH Range	3.000 ~ 150.0	Ω
	@ lin	≤ 40.00 A
CRM Range	0.3000 ~ 75.00	Ω
CRL Range	0.0030 ~ 0.3000	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	
<b>Program</b>		
CR Resolution*2	1/16000 Of Rated Value	
CRH Accuracy*2	1.00% ± 1.667 mS	
	@lin	> 0.400 A
	& Vin	> 24.00 V
CRM Accuracy*2	1.00% ± 6.67 mS	
	@lin	> 4.000 A
	& Vin	> 12.00 V
CRL Accuracy*2	1.00% ± 0.300 mS	
	@lin	> 40.00 A
	& Vin	> 0.120 V

### External Programming Mode

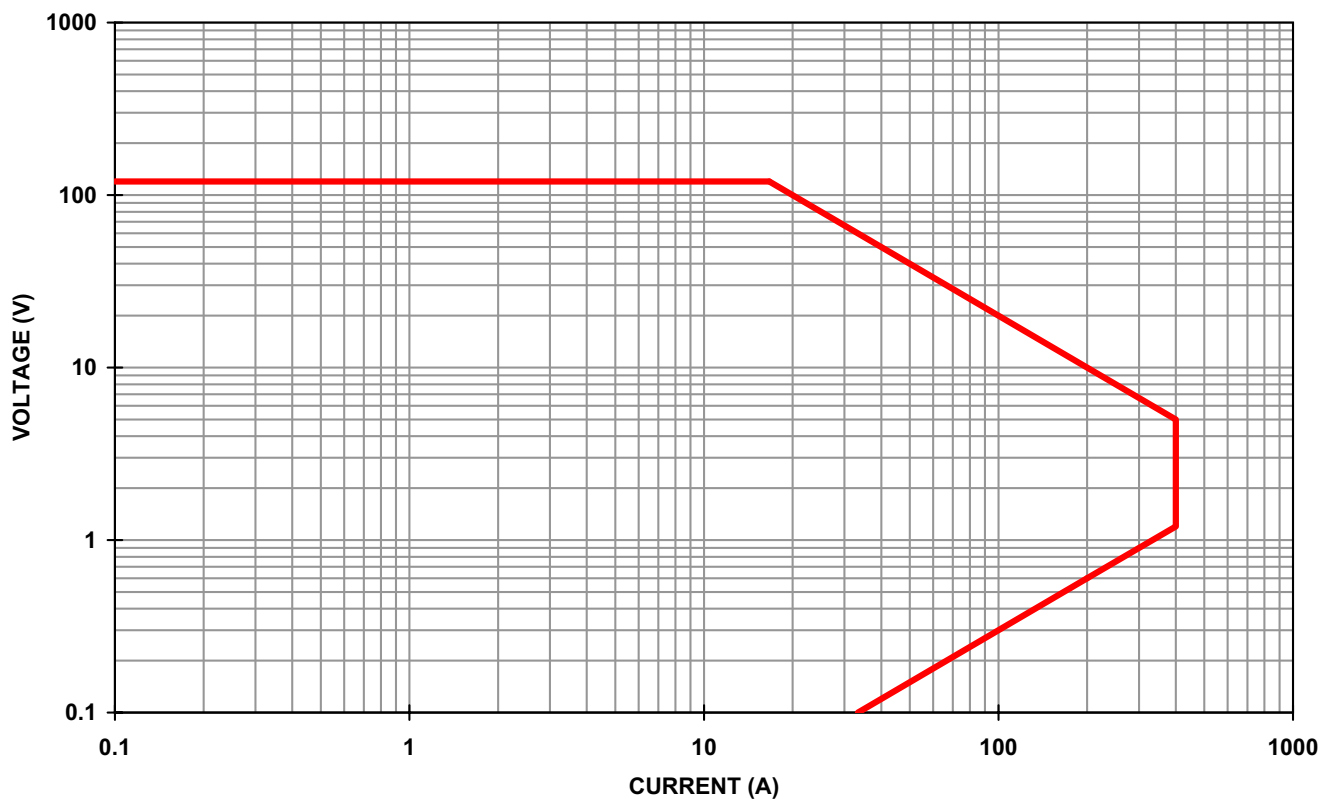
Analog Program	0~10 Volts Input yields 0~selected full scaled loading in all modes	
Accuracy	Same As Internal ± 0.1% Rating	
Input Impedance	400 kΩ ± 1%	
BandWidth(-3dB)	Limited By Internal Transient Time	
Monitor output Signal	0~10 Volts output for 0~full scaled Value	
VMON Accuracy	0.10% ± 0.120 V	
IMON Accuracy	0.10% ± 0.400 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



PLA2K-120-400 (120V,400A,2KW) OPERATIONAL CURVE



Distributed By:  
Signal Test, Inc  
1529 Santiago Ridge Way  
San Diego, CA 92154  
Tel. 1-619-575-1577 USA  
www.SignalTestInc.com  
Sales@SignalTestInc.com



www.amrel.com Intl. 626 443-6818 U.S./Canada 800 654-9838