

Constant Voltage Mode

CVH Range	0.000 ~ 600.0	V
CVM Range	0.000 ~ 300.0	V
CVL Range	0.000 ~ 60.00	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% ± 0.600	V
CVM Accuracy*2	0.05% ± 0.600	V
CVL Accuracy*2	0.05% ± 0.600	V
Display		
CVH Resolution	1/16000 of Rated Voltage	
CVH Accuracy	0.05% ± 0.600	V
CVM Accuracy	0.05% ± 0.600	V
CCL Accuracy	0.05% ± 0.600	V

Constant Current Mode

CCH Range	0.000 ~ 60.00	A
CCM Range	0.000 ~ 30.00	A
CCL Range	0.000 ~ 6.000	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})	4.500	V
Temperature Coefficient	100 ppm / °C of Rated Current	
Program		
CC Resolution*2	1/16000 of Rated Current	
CCH Accuracy*2	0.05% ± 0.060	A
CCM Accuracy*2	0.05% ± 0.060	A
CCL Accuracy*2	0.05% ± 0.060	A
Display		
CC Resolution	1/16000 of Rated Current	
CCH Accuracy	0.05% ± 0.060	A
CCM Accuracy	0.05% ± 0.060	A
CCL Accuracy	0.05% ± 0.060	A

Programmable Protection

Power(OPP)		
Range	2.063 ~ 1,650	W
Resolution	0.206	W
Accuracy	0.50% ± 4.125	W
Voltage(OVP)		
Range	0.394 ~ 630.0	V
Resolution	0.039	V
Accuracy	0.20% ± 0.788	V
Current(OC)		
Range	0.039 ~ 63.00	A
Resolution	0.004	A
Accuracy	0.20% ± 0.079	A
Under Voltage Lockout(UVL)		
Mode	Input On / Continuous	
Range	0.450 ~ 600.0	V
Resolution	0.150	V
Accuracy	2.50% ± 0.750	V
Anti-Oscillation	Default / Osc1 / Osc2 / Osc3 / Disable	

Protection

Over Power Protection(OP)	1,650 ± 31.43	W
Over Voltage Protection(OV)	630.0 ± 12.00	V
Over Current Protection(OC)	66.00 ± 0.629	A
Over Temperature Protection(OTP)	90.00 ± 5.000	°C
Reverse Maximum Current(RCP)	66.00	A
Short Maximum Current	61.20	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 ~ 1,500	W
CPM Range	0.000 ~ 750.0	W
@ lin	≤ 30.00	A
CPL Range	0.000 ~ 150.0	W
@ lin	≤ 6.000	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% ± 7.500	W
@lin	> 3.000	A
& Vin	> 60.00	V
CPM Accuracy*2	1.00% ± 7.500	W
@lin	> 0.600	A
& Vin	> 60.00	V
CPL Accuracy*2	1.00% ± 7.500	W
@lin	> 0.060	A
& Vin	> 120.0	V

Constant Resistance Mode

CRH Range	100.0 ~ 5,000	Ω
@ lin	≤ 6.000	A
CRM Range	10.00 ~ 2,500	Ω
CRL Range	0.0750 ~ 10.00	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% ± 0.050	mS
@lin	> 0.060	A
& Vin	> 120.0	V
CRM Accuracy*2	1.00% ± 0.200	mS
@lin	> 0.600	A
& Vin	> 60.00	V
CRL Accuracy*2	1.00% ± 10.000	mΩ
@lin	> 6.000	A
& Vin	> 6.000	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% ± 0.600 V
IMON Accuracy	0.10% ± 0.060 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

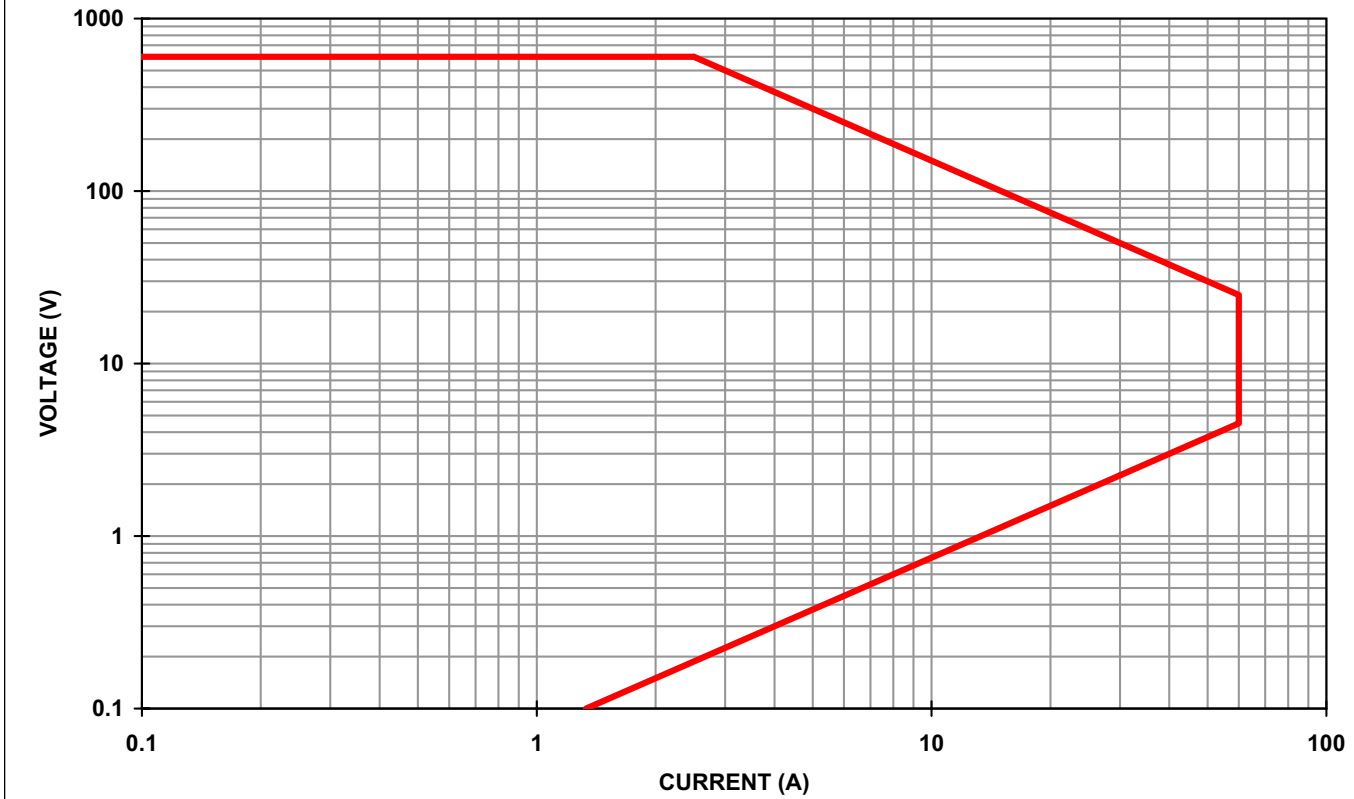
General

Derating for higher temperatures	(-).167% Rated Power / °C
AC Input	95~240 Vac 48~62 Hz
Power Consumption	100 VA
Operating Temperature	5 °C ~ 40 °C
Dimension	19.5"(L)x17"(W)x3.5"(H)
Weight	28 lbs 12.7 kg
Approx.Shipping Weight	54 lbs 24.5 kg

*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



PLA1.5K-600-60 (600V,60A,1.5KW) OPERATIONAL CURVE



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