

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	
Program		
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	
Display		
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 ~ 600.0	A
CCM Range	0.000 ~ 300.0	A
CCL Range	0.000 ~ 60.00	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})	0.900 V	
Temperature Coefficient	100 ppm / °C of Rated Current	
Program		
CC Resolution*2	1/16000 of Rated Current	
CCH Accuracy*2	0.05% ± 0.600 A	
CCM Accuracy*2	0.05% ± 0.600 A	
CCL Accuracy*2	0.05% ± 0.600 A	
Display		
CC Resolution	1/16000 of Rated Current	
CCH Accuracy	0.05% ± 0.600 A	
CCM Accuracy	0.05% ± 0.600 A	
CCL Accuracy	0.05% ± 0.600 A	

Programmable Protection

Power(OPP)		
Range	7.875 ~ 6,300	W
Resolution	0.788 W	
Accuracy	0.50% ± 15.75 W	
Voltage(OVP)		
Range	0.079 ~ 126.0	V
Resolution	0.008 V	
Accuracy	0.20% ± 0.158 V	
Current(OC)		
Range	0.394 ~ 630.0	A
Resolution	0.039 A	
Accuracy	0.20% ± 0.788 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)	6,300 ± 120.0	W
Over Voltage Protection(OV)	126.0 ± 2.400	V
Over Current Protection(OC)	660.0 ± 6.286	A
Over Temperature Protection(OTP)	50.00 ± 5.000	°C
Reverse Maximum Current(RCP)	660.0	A
Short Maximum Current	612.0	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 ~ 6,000	W
CPM Range	0.000 ~ 3,000	W
	@ lin ≤ 300.0	A
CPL Range	0.000 ~ 600.0	W
	@ lin ≤ 60.00	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% ± 30.00 W	
	@lin > 30.00	A
	& Vin > 12.00	V
CPM Accuracy*2	1.00% ± 30.00 W	
	@lin > 6.000	A
	& Vin > 12.00	V
CPL Accuracy*2	1.00% ± 30.00 W	
	@lin > 0.600	A
	& Vin > 24.00	V

Constant Resistance Mode

CRH Range	2.000 ~ 100.0	Ω
	@ lin ≤ 60.00	A
CRM Range	0.2000 ~ 50.00	Ω
CRL Range	0.0015 ~ 0.2000	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% ± 2.500 mS	
	@lin > 0.600	A
	& Vin > 24.00	V
CRM Accuracy*2	1.00% ± 10.00 mS	
	@lin > 6.000	A
	& Vin > 12.00	V
CRL Accuracy*2	1.00% ± 0.200 mS	
	@lin > 60.00	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% ± 0.600 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	

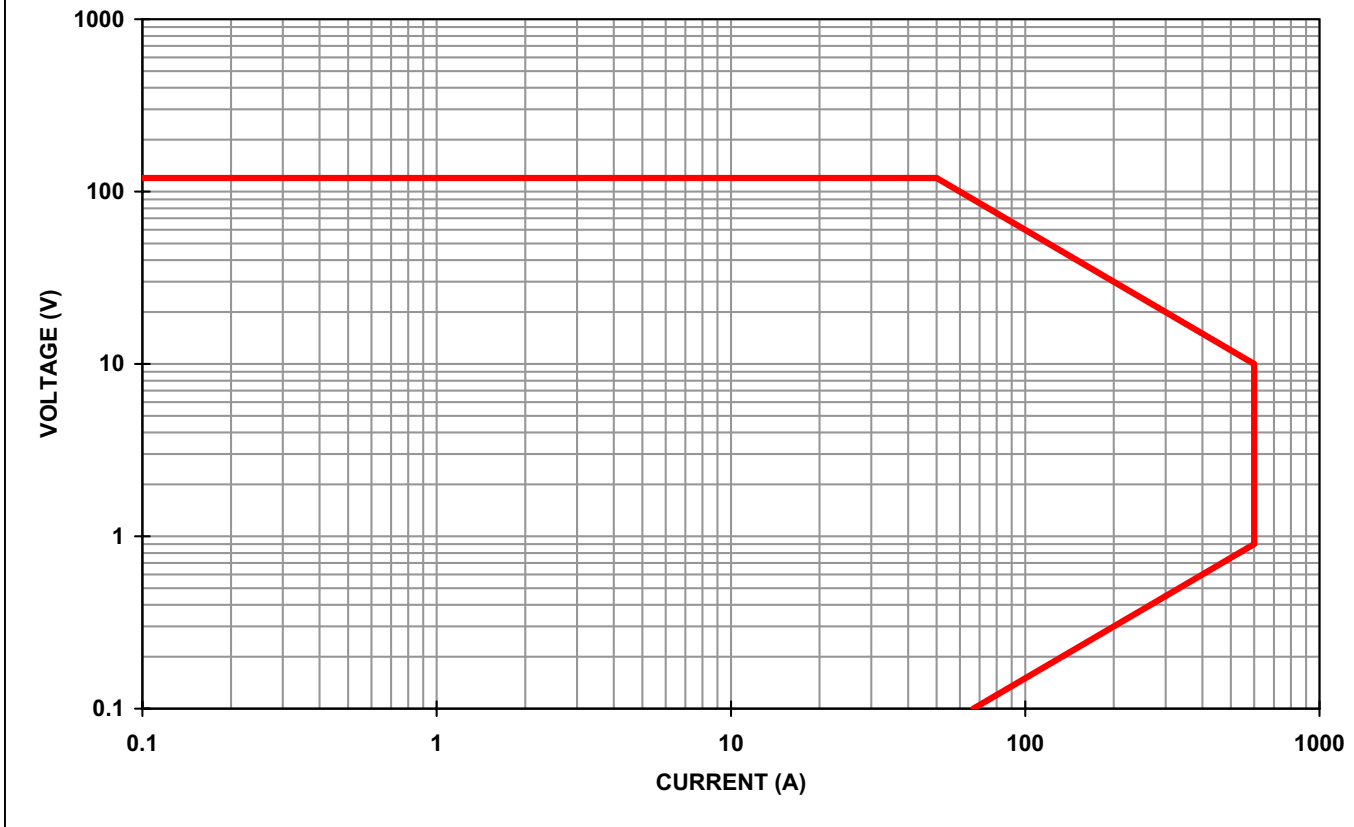
General

Fluid		
Valve	Normal Close(Power On Thermal Control)	
Flow Rate(Pmax)	≥ 1.5 GPM @ 15°C Fluid In	
Derating for higher temperatures	(-)3% Rated Power / °C	
Pressure	<80 PSI	
Pipe Size	1/2" NPT Female	
Decondensation	Valve Thermal Control	
AC Input	95~240 Vac 48~62 Hz	
Power Consumption	120 VA	
Operating Temperature	5°C ~ 40°C	
Dimension	27.5"(L)x17"(W)x3.5"(H)	
Weight		
	60 lbs	27.2 kg
Approx.Shipping Weight		
	75 lbs	34.0 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



PLW6K-120-600 (120V,600A,6KW) OPERATIONAL CURVE



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