

### 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 ~ 1,500	A
CCM Range	0.000 ~ 750.0	A
CCL Range	0.000 ~ 150.0	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> )	0.750	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% ± 1.500	A
CCM Accuracy*2	0.05% ± 1.500	A
CCL Accuracy*2	0.05% ± 1.500	A
<b>Display</b>		
CC Resolution	1/16000 of Rated Current	
CCH Accuracy	0.05% ± 1.500	A
CCM Accuracy	0.05% ± 1.500	A
CCL Accuracy	0.05% ± 1.500	A

### Programmable Protection

Power(OPP)		
Range	23.63 ~ 18,900	W
Resolution	2.363	W
Accuracy	0.50% ± 47.25	W
Voltage(OVP)		
Range	0.079 ~ 126.0	V
Resolution	0.008	V
Accuracy	0.20% ± 0.158	V
Current(OC)		
Range	0.984 ~ 1,575	A
Resolution	0.098	A
Accuracy	0.20% ± 1.969	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)	18,900 ± 360.0	W
Over Voltage Protection(OV)	126.0 ± 2.400	V
Over Current Protection(OC)	1,650 ± 15.71	A
Over Temperature Protection(OTP)	50.00 ± 5.000	°C
Reverse Maximum Current(RCP)	1,650	A
Short Maximum Current	1,530	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 ~ 18,000	W
CPM Range	0.000 ~ 9,000	W
	@ lin ≤ 750.0	A
CPL Range	0.000 ~ 1,800	W
	@ lin ≤ 150.0	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% ± 90.00	W
	@lin > 75.00	A
	& Vin > 12.00	V
CPM Accuracy*2	1.00% ± 90.00	W
	@lin > 15.00	A
	& Vin > 12.00	V
CPL Accuracy*2	1.00% ± 90.00	W
	@lin > 1.500	A
	& Vin > 24.00	V

### Constant Resistance Mode

CRH Range	0.8000 ~ 40.00	Ω
	@ lin ≤ 150.0	A
CRM Range	0.0800 ~ 20.00	Ω
CRL Range	0.0005 ~ 0.0800	Ω
Transient Time Range		
CRM / CRH	Same As CC Mode	
CRL	Same As CV Mode	
Temperature Coefficient	300 ppm / °C of Minimum Resistance	
CRM / H	300 ppm / °C of Maximum Resistance	
CRL	300 ppm / °C of Maximum Resistance	
<b>Program</b>		
CR Resolution*2	1/16000 Of Rated Value	
CRH Accuracy*2	1.00% ± 6.250	mS
	@lin > 1.500	A
	& Vin > 24.00	V
CRM Accuracy*2	1.00% ± 25.00	mS
	@lin > 15.00	A
	& Vin > 12.00	V
CRL Accuracy*2	1.00% ± 0.080	mΩ
	@lin > 150.0	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% ± 1.500 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)	≥ 4.5 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	90 lbs      40.8 kg
Approx.Shipping Weight	105 lbs      47.6 kg

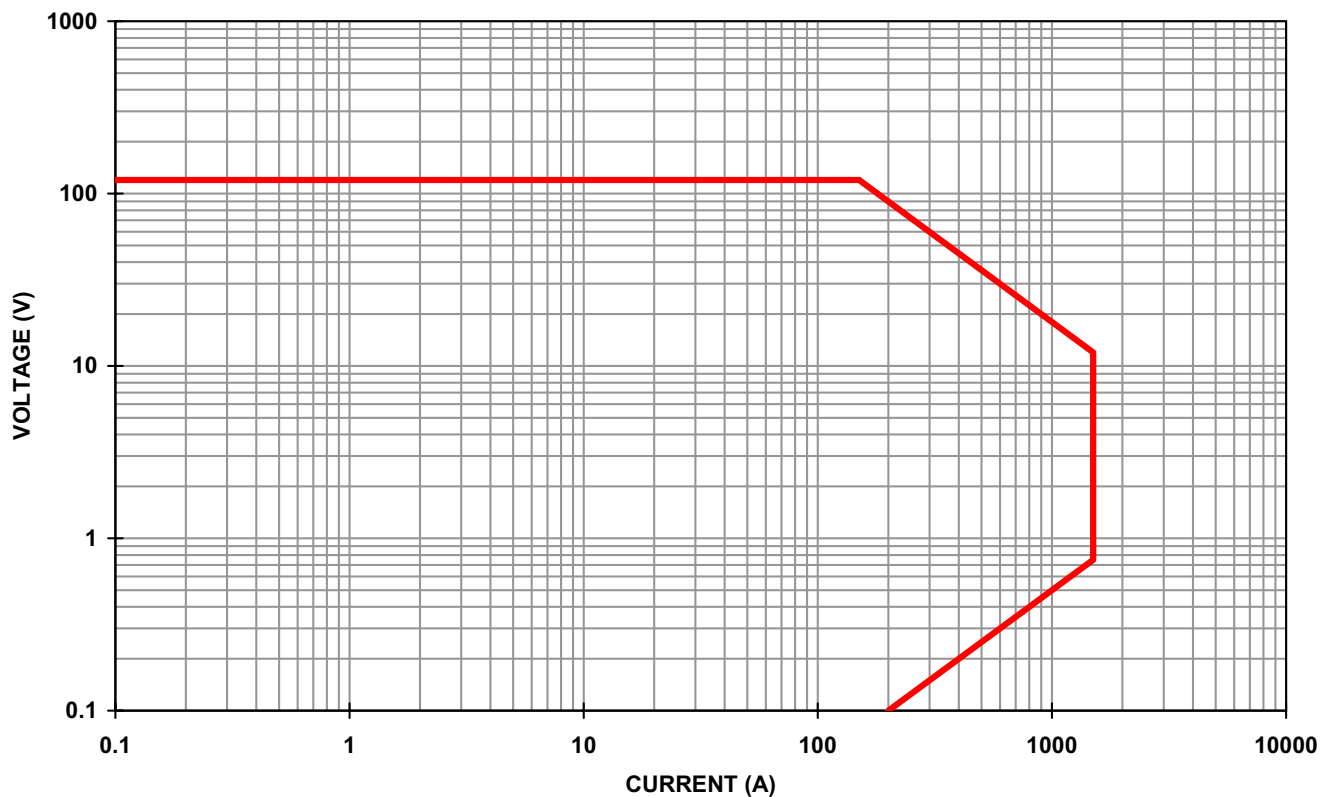
Ver 6.1

Date: 11/10/07

\*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



PLW18K-120-1500 (120V,1500A,18KW) OPERATIONAL CURVE



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