

PLW120K-800-300

Constant Voltage Mode				Constant Power Mode			
CVH Range	0.000	~	800.0 V	CPH Range	0.000	~	120,000 W
CVM Range	0.000	~	400.0 V	CPM Range	0.000	~	60,000 W
CVL Range	0.000	~	80.00 V		@ lin	≤	150.0 A
Transient Time Range				CPL Range	0.000	~	12,000 W
Fast Band(Default,Osc1)	0.500	~	51.19 ms		@ lin	≤	30.00 A
Slow Band(Osc2,Osc3)	0.500	~	511.9 ms	Transient Time Range	Same As CC Mode		
Temperature Coefficient	100 ppm/°C of Rated Voltage			Temperature Coefficient	300 ppm/°C of Rated Power		
Program				Program			
CVH Resolution*2		50.00	mV	CPH Resolution*2		7.500	W
CVM Resolution*2		25.00	mV	CPM Resolution*2		3.750	W
CVL Resolution*2		5.000	mV	CPL Resolution*2		0.750	W
CVH Accuracy*2	0.05%	±	0.800 V	CPH Accuracy*2	1.00%	±	600.0 W
CVM Accuracy*2	0.05%	±	0.800 V		@lin	>	15.00 A
CVL Accuracy*2	0.05%	±	0.800 V		& Vin	>	80.00 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CPM Accuracy*2	1.00%	±	600.0 W
Readback					@lin	>	3.000 A
CVH Resolution		50.00	mV		& Vin	>	80.00 V
CVM Resolution		25.00	mV	CPL Accuracy*2	1.00%	±	600.0 W
CVL Resolution		5.000	mV		@lin	>	0.300 A
CVH Accuracy	0.05%	±	0.800 V		& Vin	>	160.0 V
CVM Accuracy	0.05%	±	0.800 V	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.800 V				
Constant Current Mode				Constant Resistor Mode			
CCH Range	0.000	~	300.0 A	CRH Range	26.67	~	1,333 Ohm
CCM Range	0.000	~	150.0 A		@ lin	≤	30.00 A
CCL Range	0.000	~	30.00 A	CRM Range	2.667	~	666.7 Ohm
Transient Time Range				CRL Range	0.003	~	2.667 Ohm
Fast Band(Default,Osc1)	0.050	~	51.19 ms	Transient Time Range	Same As CC Mode		
Slow Band(Osc2,Osc3)	0.500	~	511.9 ms	CRM/CRH	Same As CC Mode		
Minimum Voltage(I _{Max})		0.900	V	CRL	Same As CV Mode		
Temperature Coefficient	100 ppm/°C of Rated Current			Temperature Coefficient	300 ppm/°C of Minimum Resistance		
				CRM/H	300 ppm/°C of Minimum Resistance		
				CRL	300 ppm/°C of Maximum Resistance		
Program				Program			
CCH Resolution*2		18.75	mA	CRH Resolution*2		0.002	mS
CCM Resolution*2		9.375	mA	CRM Resolution*2		0.023	mS
CCL Resolution*2		1.875	mA	CRL Resolution*2		0.167	mΩ
CCH Accuracy*2	0.05%	±	0.300 A	CRH Accuracy*2	1.00%	±	0.188 mS
CCM Accuracy*2	0.05%	±	0.300 A		@lin	>	0.300 A
CCL Accuracy*2	0.05%	±	0.300 A		& Vin	>	160.0 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CRM Accuracy*2	1.00%	±	0.750 mS
Readback					@lin	>	3.000 A
CCH Resolution		18.75	mA		& Vin	>	80.00 V
CCM Resolution		9.375	mA	CRL Accuracy*2	1.00%	±	2.667 mΩ
CCL Resolution		1.875	mA		@lin	>	30.00 A
CCH Accuracy	0.05%	±	0.300 A		& Vin	>	0.800 V
CCM Accuracy	0.05%	±	0.300 A	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.300 A				
Programmable Protection				External			
Power(OPP)				Program	0~10 Volts Input yields		
Range	157.5	~	126,000 W		0~selected full scaled loading in all modes		
Resolution			15.750 W	Accuracy	Same As Internal	± 0.1%	Rating
Accuracy	0.50%		315.0 W	Input Impedance	400.0	±	1 % KΩ
Voltage(OVP)				BandWidth(-3dB)	Limited By Internal Adjustable Transient Time		
Range	0.525	~	840.0 V	Monitor output Signal	0~10 Volts output for 0~full scaled Value		
Resolution			0.053 V	VMON Accuracy	0.10%	±	0.800 V
Accuracy	0.20%	±	1.050 V	IMON Accuracy	0.10%	±	0.300 A
Current(OCP)							
Range	0.197	~	315.0 A				
Resolution			0.020 A				
Accuracy	0.20%	±	0.394 A				
Under Voltage Lockout(UVL)				Others			
Mode	Input On/Continuous			Transient Mode			
Range	0.600	~	800.0 V	Frequency Range	0.100	~	10,000 Hz
Resolution			0.200 V	Accuracy			0.1%
Accuracy	2.50%	±	1.000 V	Duty Range	1.000	~	100.0 %
Anti-Oscillation	Default/Osc1/Osc2/Osc3			Accuracy			0.1%
Protection				Remote Interface	GPIOB/RS-232/ETHERNET/USB		
Over Power Protection(OP)	126,000	±	2,400 W	Fluid			
Over Voltage Protection(OV)	840.0	±	16.00 V	Valve	Normal Close(Power On Thermal Control)		
Over Current Protection(OC)	330.0	±	3.143 A	Flow Rate(Pmax)	≥ 30.0 GPM @ 15°C Fluid In		
Over Temperature Protection(OTP)	40.00	±	5.000 °C	Derating for higher temperatures	(-)4% Rated Power/°C		
Reverse Maximum Current(RCP)	330.0		A	Pressure	<80 PSI		
Short Maximum Current			306.0 A	Pipe Size	1-1/4" NPT Female		
Remote Inhibit(RI)	Short			Decondensation	Valve Thermal Control		
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)						
Dielectric Strength				General			
Primary Circuit To Chassis	1500 VAC for 1 MIN			AC Input	85~240 Vac 48~62 Hz		
Primary Circuit To Load Terminal	1500 VAC for 1 MIN			Power Consumption	About 700 VA @125Vac		
Load Terminal To Chassis	1500 VDC for 1 MIN			Operating Temperature	5 °C ~ 40 °C		
				Dimension	23.5"(W)x56.8"(H)x38"(D)--30U CABINET		
				Weight	About 1400 LBS		

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

Ver 1.0

Date : 08/12/05

*2 Transient Mode Specification must be x2. AMREL reserves the right to change limits, test conditions, and dimensions without notice

PLW120K-800-300 (800V,300A,120KW) OPERATIONAL CURVE

