

# PLW150K-600-300

Constant Voltage Mode				Constant Power Mode			
CVH Range	0.000	~	600.0 V	CPH Range	0.000	~	150,000 W
CVM Range	0.000	~	300.0 V	CPM Range	0.000	~	75,000 W
CVL Range	0.000	~	60.00 V		@ lin	≤	150.0 A
				CPL Range	0.000	~	15,000 W
					@ lin	≤	30.00 A
Transient Time Range				Transient Time Range	Same As CC Mode		
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			Temperature Coefficient	300 ppm/°C of Rated Power		
Program				Program			
CVH Resolution*2		37.50	mV	CPH Resolution*2		9.375	W
CVM Resolution*2		18.75	mV	CPM Resolution*2		4.688	W
CVL Resolution*2		3.750	mV	CPL Resolution*2		0.938	W
CVH Accuracy*2	0.05%	±	0.600 V	CPH Accuracy*2	1.00%	±	750.0 W
CVM Accuracy*2	0.05%	±	0.600 V		@lin	>	15.00 A
CVL Accuracy*2	0.05%	±	0.600 V		& Vin	>	60.00 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CPM Accuracy*2	1.00%	±	750.0 W
Readback					@lin	>	3.000 A
CVH Resolution		37.50	mV		& Vin	>	60.00 V
CVM Resolution		18.75	mV	CPL Accuracy*2	1.00%	±	750.0 W
CVL Resolution		3.750	mV		@lin	>	0.300 A
CVH Accuracy	0.05%	±	0.600 V		& Vin	>	120.0 V
CVM Accuracy	0.05%	±	0.600 V	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.600 V				
Constant Current Mode				Constant Resistor Mode			
CCH Range	0.000	~	300.0 A	CRH Range	20.00	~	1,000 Ohm
CCM Range	0.000	~	150.0 A		@ lin	≤	30.00 A
CCL Range	0.000	~	30.00 A	CRM Range	2.000	~	500.0 Ohm
Transient Time Range				CRL Range	0.003	~	2,000 Ohm
Fast Band(Default,Osc1)	0.050	~	51.19 ms	Transient Time Range			
Slow Band(Osc2,Osc3)	0.500	~	511.9 ms	CRM/CRH	Same As CC Mode		
Minimum Voltage(I <sub>Max</sub> )		0.900	V	CRL	Same As CV Mode		
Temperature Coefficient	100 ppm/°C of Rated Current			Temperature Coefficient			
				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		0.003	mS
CCM Resolution*2		9.375	mA	CRM Resolution*2		0.031	mS
CCL Resolution*2		1.875	mA	CRL Resolution*2		0.125	mΩ
CCH Accuracy*2	0.05%	±	0.300 A	CRH Accuracy*2	1.00%	±	0.250 mS
CCM Accuracy*2	0.05%	±	0.300 A		@lin	>	0.300 A
CCL Accuracy*2	0.05%	±	0.300 A		& Vin	>	120.0 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CRM Accuracy*2	1.00%	±	1,000 mS
Readback					@lin	>	3,000 A
CCH Resolution		18.75	mA		& Vin	>	60.00 V
CCM Resolution		9.375	mA	CRL Accuracy*2	1.00%	±	2,000 mΩ
CCL Resolution		1.875	mA		@lin	>	30.00 A
CCH Accuracy	0.05%	±	0.300 A		& Vin	>	0.600 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	196.9	~	157,500 W		0~selected full scaled loading in all modes		
Resolution		19.688	W	Accuracy	Same As Internal ± 0.1% Rating		
Accuracy	0.50%		393.8 W	Input Impedance	400.0	±	1% KΩ
Voltage(OVP)				BandWidth(-3dB)	Limited By Internal Adjustable Transient Time		
Range	0.394	~	630.0 V	Monitor output Signal	0~10 Volts output for 0~full scaled Value		
Resolution		0.039	V	VMON Accuracy	0.10%	±	0.600 V
Accuracy	0.20%	±	0.788 V	IMON Accuracy	0.10%	±	0.300 A
Current(OCF)							
Range	0.197	~	315.0 A				
Resolution		0.020	A				
Accuracy	0.20%	±	0.394 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						
Protection				Others			
Over Power Protection(OP)	157,500	±	3,000 W	Transient Mode			
Over Voltage Protection(OV)	630.0	±	12.00 V	Frequency Range	0.100	~	10,000 Hz
Over Current Protection(OC)	330.0	±	3.143 A	Accuracy		0.1%	
Over Temperature Protection(OTP)	40.00	±	5.000 °C	Duty Range	1.000	~	100.0 %
Reverse Maximum Current(RCP)	330.0		A	Accuracy		0.1%	
Short Maximum Current		306.0	A				
Remote Inhibit(RI)	Short			Remote Interface	GPIOB/RS-232/ETHERNET/USB		
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)			Fluid			
				Valve	Normal Close(Power On Thermal Control)		
				Flow Rate(Pmax)	≥ 37.5 GPM @ 15°CFluid In		
				Derating for higher temperatures	(-)4% Rated Power/°C		
				Pressure	<80 PSI		
				Pipe Size	1-1/4" NPT Female		
				Decondensation	Valve Thermal Control		
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 :      10/07/05

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

PLW150K-600-300 (600V,300A,150KW) OPERATIONAL CURVE



