

PLW150K-700-300

Constant Voltage Mode				Constant Power Mode					
CVH Range	0.000	~	700.0	V	CPH Range	0.000	~	150,000	W
CVM Range	0.000	~	350.0	V	CPM Range	0.000	~	75,000	W
CVL Range	0.000	~	70.00	V		@ lin	≤	150.0	A
Transient Time Range					CPL Range	0.000	~	15,000	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			43.75	mV	CPH Resolution*2			9.375	W
CVM Resolution*2			21.88	mV	CPM Resolution*2			4.688	W
CVL Resolution*2			4.375	mV	CPL Resolution*2			0.938	W
CVH Accuracy*2	0.05%	±	0.700	V	CPH Accuracy*2	1.00%	±	750.0	W
CVM Accuracy*2	0.05%	±	0.700	V		@lin	>	15.00	A
CVL Accuracy*2	0.05%	±	0.700	V		& Vin	>	70.00	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			43.75	mV		& Vin	>	70.00	V
CVM Resolution			21.88	mV	CPL Accuracy*2	1.00%	±	750.0	W
CVL Resolution			4.375	mV		@lin	>	0.300	A
CVH Accuracy	0.05%	±	0.700	V		& Vin	>	140.0	V
CVM Accuracy	0.05%	±	0.700	V	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.700	V	Constant Resistor Mode				
Constant Current Mode					CRH Range	23.33	~	1,167	Ohm
CCH Range	0.000	~	300.0	A		@ lin	≤	30.00	A
CCM Range	0.000	~	150.0	A	CRM Range	2.333	~	583.3	Ohm
CCL Range	0.000	~	30.00	A	CRL Range	0.003	~	2.333	Ohm
Transient Time Range					Transient Time Range	Same As CC Mode			
Fast Band(Default,Osc1)	0.050	~	51.19	ms	CRM/CRH	Same As CV Mode			
Slow Band(Osc2,Osc3)	0.500	~	511.9	ms	CRL	Same As CV Mode			
Minimum Voltage(I _{Max})			0.900	V	Temperature Coefficient	300 ppm/°C of Minimum Resistance			
Temperature Coefficient	100 ppm/°C of Rated Current				CRM/H	300 ppm/°C of Maximum 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			0.027	mS
CCL Resolution*2			1.875	mA	CRL Resolution*2			0.146	mΩ
CCH Accuracy*2	0.05%	±	0.300	A	CRH Accuracy*2	1.00%	±	0.214	mS
CCM Accuracy*2	0.05%	±	0.300	A		@lin	>	0.300	A
CCL Accuracy*2	0.05%	±	0.300	A		& Vin	>	140.0	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CRM Accuracy*2	1.00%	±	0.857	mS
Readback						@lin	>	3.000	A
CCH Resolution			18.75	mA		& Vin	>	70.00	V
CCM Resolution			9.375	mA	CRL Accuracy*2	1.00%	±	2.333	mΩ
CCL Resolution			1.875	mA		@lin	>	30.00	A
CCH Accuracy	0.05%	±	0.300	A		& Vin	>	0.700	V
CCM Accuracy	0.05%	±	0.300	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.300	A	External				
Programmable Protection					Program	0~10 Volts Input yields			
Power(OPP)						0~selected full scaled loading in all modes			
Range	196.9	~	157,500	W	Accuracy	Same As Internal		± 0.1%	Rating
Resolution	19.688			W	Input Impedance	400.0 ± 1 % KΩ			
Accuracy	0.50%		393.8	W	BandWidth(-3dB)	Limited By Internal Adjustable Transient Time			
Voltage(OVP)					Monitor output Signal	0~10 Volts output for 0~full scaled Value			
Range	0.459	~	735.0	V	VMON Accuracy	0.10%	±	0.700	V
Resolution			0.046	V	IMON Accuracy	0.10%	±	0.300	A
Accuracy	0.20%	±	0.919	V	Others				
Current(OCP)					Transient Mode				
Range	0.197	~	315.0	A	Frequency Range	0.100	~	10,000	Hz
Resolution			0.020	A	Accuracy			0.1%	
Accuracy	0.20%	±	0.394	A	Duty Range	1.000	~	100.0	%
Under Voltage Lockout(UVL)					Accuracy			0.1%	
Mode	Input On/Continuous				Remote Interface	GPIO/RS-232/ETHERNET/USB			
Range	0.525	~	700.0	V	Fluid				
Resolution			0.175	V	Valve	Normal Close(Power On Thermal Control)			
Accuracy	2.50%	±	0.875	V	Flow Rate(Pmax)	≥ 37.5 GPM @ 15°C Fluid In			
Anti-Oscillation	Default/Osc1/Osc2/Osc3				Derating for higher temperatures	(-)4% Rated Power/°C			
Protection					Pressure	<80 PSI			
Over Power Protection(OP)	157,500	±	3,000	W	Pipe Size	1-1/4" NPT Female			
Over Voltage Protection(OV)	735.0	±	14.00	V	Decondensation	Valve Thermal Control			
Over Current Protection(OC)	330.0	±	3.143	A	General				
Over Temperature Protection(OTP)	40.00	±	5.000	°C	AC Input	85~240 Vac 48~62 Hz			
Reverse Maximum Current(RCP)	330.0			A	Power Consumption	About 700 VA @125Vac			
Short Maximum Current			306.0	A	Operating Temperature	5 °C ~ 40 °C			
Remote Inhibit(RI)	Short				Dimension	23.5"(W)x56.8"(H)x38"(D)--30U CABINET			
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				Weight	About 1600 LBS			
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								

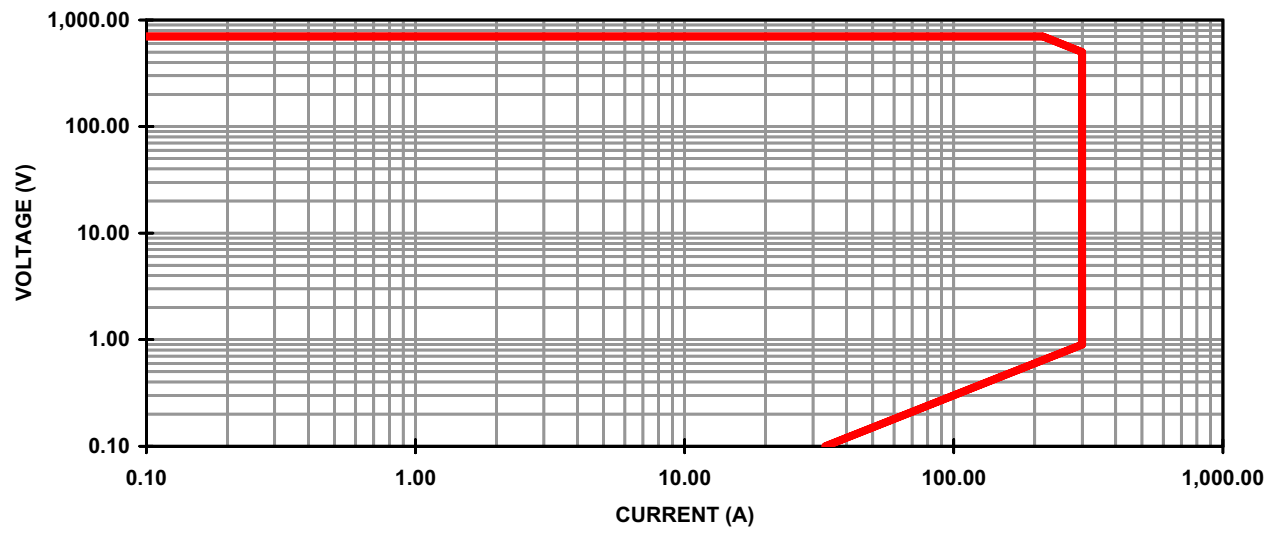
*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

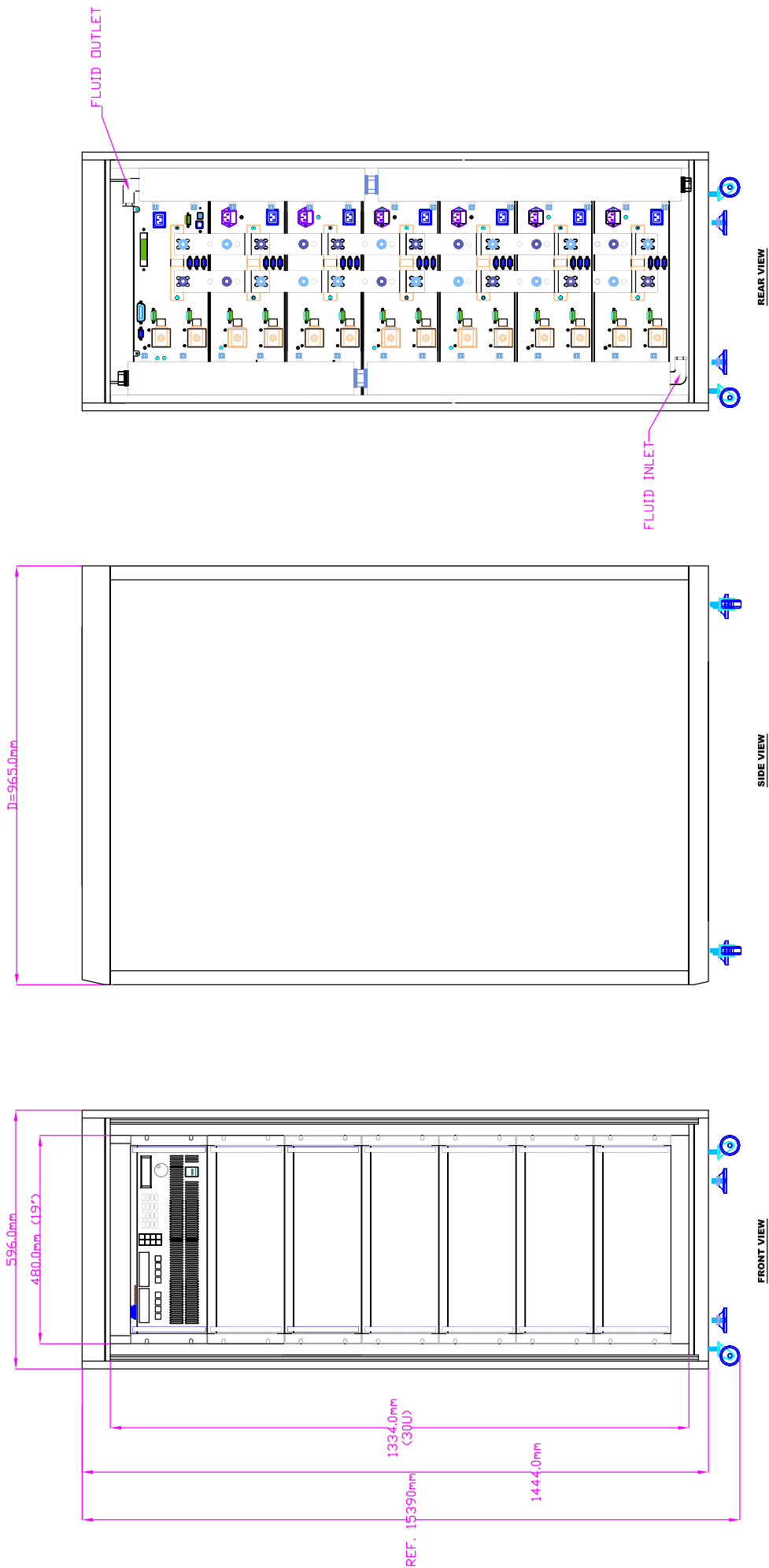
Ver 1.0

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-700-300 (700V,300A,150KW) OPERATIONAL CURVE





Intel
PLW150k-700-300
 10/07/2005