

PLW48K-300-300

Constant Voltage Mode					Constant Power Mode				
CVH Range	0.000	~	300.0	V	CPH Range	0.000	~	48,000	W
CVM Range	0.000	~	150.0	V	CPM Range	0.000	~	24,000	W
CVL Range	0.000	~	30.00	V		@ lin	≤	150.0	A
Transient Time Range					CPL Range	0.000	~	4,800	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		18.75	mV		CPH Resolution*2		3.000	W	
CVM Resolution*2		9.38	mV		CPM Resolution*2		1.500	W	
CVL Resolution*2		1.875	mV		CPL Resolution*2		0.300	W	
CVH Accuracy*2	0.05%	±	0.300	V	CPH Accuracy*2	1.00%	±	240.0	W
CVM Accuracy*2	0.05%	±	0.300	V		@lin	>	15.00	A
CVL Accuracy*2	0.05%	±	0.300	V		& Vin	>	30.00	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CPM Accuracy*2	1.00%	±	240.0	W
Readback						@lin	>	3.000	A
CVH Resolution		18.75	mV			& Vin	>	30.00	V
CVM Resolution		9.38	mV		CPL Accuracy*2	1.00%	±	240.0	W
CVL Resolution		1.875	mV			@lin	>	0.300	A
CVH Accuracy	0.05%	±	0.300	V		& Vin	>	60.00	V
CVM Accuracy	0.05%	±	0.300	V	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.300	V	Constant Resistor Mode				
Constant Current Mode					CRH Range	10.00	~	500.0	Ohm
CCH Range	0.000	~	300.0	A		@ lin	≤	30.00	A
CCM Range	0.000	~	150.0	A	CRM Range	1.000	~	250.0	Ohm
CCL Range	0.000	~	30.00	A	CRL Range	0.0020	~	1.000	Ohm
Transient Time Range					Transient Time Range				
Fast Band(Default,Osc1)	0.050	~	51.19	ms	CRM/CRH	Same As CC Mode			
Slow Band(Osc2,Osc3)	0.500	~	511.9	ms	CRL	Same As CV Mode			
Minimum Voltage(I _{Max})			0.600	V	Temperature Coefficient				
Temperature Coefficient	100 ppm/°C of Rated Current				CRM/H	300 ppm/°C of Minimum Resistance			
Program					CRL	300 ppm/°C of Maximum Resistance			
CCH Resolution*2		18.75	mA		Program				
CCM Resolution*2		9.375	mA		CRH Resolution*2		0.006	mS	
CCL Resolution*2		1.875	mA		CRM Resolution*2		0.063	mS	
CCH Accuracy*2	0.05%	±	0.300	A	CRL Resolution*2		0.063	mΩ	
CCM Accuracy*2	0.05%	±	0.300	A	CRH Accuracy*2	1.00%	±	0.500	mS
CCL Accuracy*2	0.05%	±	0.300	A		@lin	>	0.300	A
Transient Time Accuracy	10.0%	±	50% of Minimum Time			& Vin	>	60.00	V
Readback					CRM Accuracy*2	1.00%	±	2.000	mS
CCH Resolution		18.75	mA			@lin	>	3.000	A
CCM Resolution		9.375	mA			& Vin	>	30.00	V
CCL Resolution		1.875	mA		CRL Accuracy*2	1.00%	±	1.000	mΩ
CCH Accuracy	0.05%	±	0.300	A		@lin	>	30.00	A
CCM Accuracy	0.05%	±	0.300	A		& Vin	>	0.300	V
CCL Accuracy	0.05%	±	0.300	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
Programmable Protection					External				
Power(OPP)					Program	0~10 Volts Input yields			
Range	66.00	~	52,800	W		0~selected full scaled loading in all modes			
Resolution			6.600	W	Accuracy	Same As Internal ± 0.1% Rating			
Accuracy	0.50%		132.00	W	Input Impedance	400.0	±	1 %	KΩ
Voltage(OVP)					BandWidth(-3dB)	Limited By Internal Adjustable Transient Time			
Range	0.197	~	315.0	V	Monitor output Signal	0~10 Volts output for 0~full scaled Value			
Resolution			0.020	V	VMON Accuracy	0.10%	±	0.300	V
Accuracy	0.20%	±	0.394	V	IMON Accuracy	0.10%	±	0.300	A
Current(OCP)					Others				
Range	0.206	~	330.0	A	Transient Mode				
Resolution			0.021	A	Frequency Range	0.100	~	10,000	Hz
Accuracy	0.20%	±	0.413	A	Accuracy			0.1%	
Under Voltage Lockout(UVL)					Duty Range	1.000	~	100.0	%
Mode	Input On/Continuous				Accuracy			0.1%	
Range	0.225	~	300.0	V	Remote Interface	GPIOB/RS-232/ETHERNET/USB			
Resolution			0.075	V	Fluid				
Accuracy	2.50%	±	0.375	V	Valve	Normal Close(Power On Thermal Control)			
Anti-Oscillation					Flow Rate(Pmax)	≥ 12.0 GPM @ 15°C Fluid In			
(Only for CC/CP/CRM/CRH)	Default/Osc1/Osc2/Osc3				Derating for higher temperatures	(-)3% Rated Power/°C			
Protection					Pressure	<80 PSI			
Over Power Protection(OP)	50,400	±	960.0	W	Pipe Size	3/4" NPT Female			
Over Voltage Protection(OV)	345.0	±	6.571	V	Decondensation	Valve Thermal Control			
Over Current Protection(OC)	315.0	±	3.000	A	General				
Over Temperature Protection(OTP)	50.00	±	5.000	°C	AC Input	85~240 Vac 48~62 Hz			
Reverse Maximum Current(RCP)	330.0		A		Power Consumption	220 VA			
Short Maximum Current			306.0	A	Operating Temperature	5 °C	~	40 °C	
Remote Inhibit(RI)	Short				Dimension	30(L)x19(W)x7.0(H)			
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				Weight	190 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 2.0 Date : 12/09/04

*2 Transient Mode Specification must be x2

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AMREL reserves the right to change limits,test conditions,and dimensions without notice

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Rev.: Original

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PLW48K-300-300 (300V,300A,48KW) OPERATIONAL CURVE

