

PLW48K-400-300E

Constant Voltage Mode				Constant Power Mode				
CVH Range	0.000	~	400.0	V	CPH Range	0.000	~ 48,000	W
CVM Range	0.000	~	200.0	V	CPM Range	0.000	~ 24,000	W
CVL Range	0.000	~	40.00	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		25.00	mV	CPH Resolution*2		3.000	W	
CVM Resolution*2		12.50	mV	CPM Resolution*2		1.500	W	
CVL Resolution*2		2.500	mV	CPL Resolution*2		0.300	W	
CVH Accuracy*2	0.05%	± 0.400	V	CPH Accuracy*2	1.00%	± 240.0	W	
CVM Accuracy*2	0.05%	± 0.400	V		@lin	> 15.00	A	
CVL Accuracy*2	0.05%	± 0.400	V		& Vin	> 40.00	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		25.00	mV		& Vin	> 40.00	V	
CVM Resolution		12.50	mV	CPL Accuracy*2	1.00%	± 240.0	W	
CVL Resolution		2.500	mV		@lin	> 0.300	A	
CVH Accuracy	0.05%	± 0.400	V		& Vin	> 80.00	V	
CVM Accuracy	0.05%	± 0.400	V	Transient Time Accuracy	10.0%	± 50% of Minimum Time		
CCL Accuracy	0.05%	± 0.400	V	Constant Resistor Mode				
Constant Current Mode				CRH Range	13.33	~ 666.7	Ohm	
CCH Range	0.000	~ 300.0	A		@ lin	≤ 30.00	A	
CCM Range	0.000	~ 150.0	A	CRM Range	1.333	~ 333.3	Ohm	
CCL Range	0.000	~ 30.00	A	CRL Range	0.0020	~ 1.333	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		0.005	mS	
CCL Resolution*2		1.875	mA	CRM Resolution*2		0.047	mS	
CCH Accuracy*2	0.05%	± 0.300	A	CRL Resolution*2		0.083	mΩ	
CCM Accuracy*2	0.05%	± 0.300	A	CRH Accuracy*2	1.00%	± 0.375	mS	
CCL Accuracy*2	0.05%	± 0.300	A		@lin	> 0.300	A	
Transient Time Accuracy	10.0%	± 50% of Minimum Time			& Vin	> 80.00	V	
Readback				CRM Accuracy*2	1.00%	± 1.500	mS	
CCH Resolution		18.75	mA		@lin	> 3.000	A	
CCM Resolution		9.375	mA		& Vin	> 40.00	V	
CCL Resolution		1.875	mA	CRL Accuracy*2	1.00%	± 1.333	mΩ	
CCH Accuracy	0.05%	± 0.300	A		@lin	> 30.00	A	
CCM Accuracy	0.05%	± 0.300	A		& Vin	> 0.400	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	0.288	~ 460.0	V	Monitor output Signal	0~10 Volts output for 0~full scaled Value			
Resolution		0.029	V	VMON Accuracy	0.10%	± 0.400	V	
Accuracy	0.20%	± 0.575	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	0.300	~ 400.0	V	Remote Interface	GPIOB/RS-232/ETHERNET/USB			
Resolution		0.100	V	Fluid				
Accuracy	2.50%	± 0.500	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)	460.0	± 8.762	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 2.1 Date : 12/14/04

*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-400-300E (400V,300A,48KW) OPERATIONAL CURVE

