

PLW12K-600-400

Constant Voltage Mode				Constant Power Mode					
CVH Range	0.000	~	600.0	V	CPH Range	0.000	~	12,000	W
CVM Range	0.000	~	300.0	V	CPM Range	0.000	~	6,000	W
CVL Range	0.000	~	60.00	V		@ lin	≤	200.0	A
Transient Time Range					CPL Range	0.000	~	1,200	W
Fast Band(Default,Osc1)	0.500	~	51.19	ms		@ lin	≤	40.00	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			37.50	mV	CPH Resolution*2			0.750	W
CVM Resolution*2			18.75	mV	CPM Resolution*2			0.375	W
CVL Resolution*2			3.750	mV	CPL Resolution*2			0.075	W
CVH Accuracy*2	0.05%	±	0.600	V	CPH Accuracy*2	1.00%	±	90.00	W
CVM Accuracy*2	0.05%	±	0.600	V		@lin	>	20.00	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%	±	90.00	W
Readback						@lin	>	4.000	A
CVH Resolution			37.50	mV		& Vin	>	60.00	V
CVM Resolution			18.75	mV	CPL Accuracy*2	1.00%	±	90.00	W
CVL Resolution			3.750	mV		@lin	>	0.400	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 Resistor Mode				
Constant Current Mode					CRH Range	15.00	~	750.0	Ω
CCH Range	0.000	~	400.0	A		@ lin	≤	40.00	A
CCM Range	0.000	~	200.0	A	CRM Range	1.500	~	375.0	Ω
CCL Range	0.000	~	40.00	A	CRL Range	0.0120	~	1.500	Ω
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				
Minimum Voltage(I _{Max})			4.800	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			25.00	mA	Program				
CCM Resolution*2			12.50	mA	CRH Resolution*2			0.004	mS
CCL Resolution*2			2.500	mA	CRM Resolution*2			0.042	mS
CCH Accuracy*2	0.05%	±	0.400	A	CRL Resolution*2			0.094	mΩ
CCM Accuracy*2	0.05%	±	0.400	A	CRH Accuracy*2	1.00%	±	0.333	mS
CCL Accuracy*2	0.05%	±	0.400	A		@lin	>	0.400	A
Transient Time Accuracy	10.0%	±	50% of Minimum Time			& Vin	>	120.0	V
Readback					CRM Accuracy*2	1.00%	±	1.333	mS
CCH Resolution			25.00	mA		@lin	>	4.000	A
CCM Resolution			12.50	mA		& Vin	>	60.00	V
CCL Resolution			2.500	mA	CRL Accuracy*2	1.00%	±	1.500	mΩ
CCH Accuracy	0.05%	±	0.400	A		@lin	>	40.00	A
CCM Accuracy	0.05%	±	0.400	A		& Vin	>	0.600	V
CCL Accuracy	0.05%	±	0.400	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
Programmable Protection					External				
Power(OPP)					Program	0~10 Volts Input yields			
Range	15.75	~	12,600	W		0~selected full scaled loading in all modes			
Resolution			1.575	W	Accuracy	Same As Internal	± 0.1%	Rating	
Accuracy	0.50%		31.50	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%	±	0.400	A
Current(OCF)					Others				
Range	0.263	~	420.0	A	Transient Mode				
Resolution			0.026	A	Frequency Range	0.100	~	10,000	Hz
Accuracy	0.20%	±	0.525	A	Accuracy			0.1%	
Under Voltage Lockout(UVL)					Duty Range	1.000	~	100.0	%
Mode	Input On/Continuous				Accuracy			0.1%	
Range	0.450	~	600.0	V	Remote Interface	GPIO/RS-232/ETHERNET/USB			
Resolution			0.150	V	Fluid				
Accuracy	2.50%	±	0.750	V	Valve	Normal Close(Power On Thermal Control)			
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable				Flow Rate(Pmax)	≥ 3.0 GPM @ 15°CFluid In			
Protection					Derating for higher temperatures	(-)3% Rated Power/°C			
Over Power Protection(OP)	12,600	±	240.0	W	Pressure	<80 PSI			
Over Voltage Protection(OV)	630.0	±	12.00	V	Pipe Size	1/2" NPT Female			
Over Current Protection(OC)	440.0	±	4.190	A	Decondensation	Valve Thermal Control			
Over Temperature Protection(OTP)	50.00	±	5.000	°C	General				
Reverse Maximum Current(RCP)	440.0			A	AC Input	85~240 Vac 48~62 Hz			
Short Maximum Current			408.0	A	Power Consumption	120 VA			
Remote Inhibit(RI)	Short				Operating Temperature	5 °C	~	40 °C	
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				Dimension	27.5(L)x17(W)x3.5(H)			
Dielectric Strength					Weight	90 LBS			
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 5.0

Date : 04/10/06

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

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Rev.: 1

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PLW12K-600-400 (600V,400A,12KW) OPERATIONAL CURVE

