

PLW12K-60-1500

Constant Voltage Mode				Constant Power Mode					
CVH Range	0.000	~	60.00	V	CPH Range	0.000	~	12,000	W
CVM Range	0.000	~	30.00	V	CPM Range	0.000	~	6,000	W
CVL Range	0.000	~	6.000	V		@ lin	≤	750.0	A
Transient Time Range					CPL Range	0.000	~	1,200	W
Fast Band(Default,Osc1)	0.500	~	51.19	ms		@ lin	≤	150.0	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		3.750	mV		CPH Resolution*2		0.750	W	
CVM Resolution*2		1.875	mV		CPM Resolution*2		0.375	W	
CVL Resolution*2		0.375	mV		CPL Resolution*2		0.075	W	
CVH Accuracy*2	0.05%	±	0.060	V	CPH Accuracy*2	1.00%	±	90.00	W
CVM Accuracy*2	0.05%	±	0.060	V		@ lin	>	75.00	A
CVL Accuracy*2	0.05%	±	0.060	V		& Vin	>	6.000	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CPM Accuracy*2	1.00%	±	90.00	W
Readback						@ lin	>	15.00	A
CVH Resolution		3.750	mV			& Vin	>	6.000	V
CVM Resolution		1.875	mV		CPL Accuracy*2	1.00%	±	90.00	W
CVL Resolution		0.375	mV			@ lin	>	1.500	A
CVH Accuracy	0.05%	±	0.060	V		& Vin	>	12.00	V
CVM Accuracy	0.05%	±	0.060	V	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.060	V	Constant Resistor Mode				
Constant Current Mode					CRH Range	0.4000	~	13.33	Ω
CCH Range	0.000	~	1,500	A		@ lin	≤	150.0	A
CCM Range	0.000	~	750.0	A	CRM Range	0.0400	~	6.667	Ω
CCL Range	0.000	~	150.0	A	CRL Range	0.0004	~	0.0400	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})		0.600	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			
CRM					CRL				
Program					Program				
CCH Resolution*2		93.75	mA		CRH Resolution*2		0.156	mS	
CCM Resolution*2		46.88	mA		CRM Resolution*2		1.563	mS	
CCL Resolution*2		9.375	mA		CRL Resolution*2		0.003	mΩ	
CCH Accuracy*2	0.05%	±	2.250	A	CRH Accuracy*2	1.00%	±	12.50	mS
CCM Accuracy*2	0.05%	±	2.250	A		@ lin	>	1.500	A
CCL Accuracy*2	0.05%	±	2.250	A		& Vin	>	12.00	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CRM Accuracy*2	1.00%	±	50.00	mS
Readback						@ lin	>	15.00	A
CCH Resolution		93.75	mA			& Vin	>	6.000	V
CCM Resolution		46.88	mA		CRL Accuracy*2	1.00%	±	0.040	mΩ
CCL Resolution		9.375	mA			@ lin	>	150.0	A
CCH Accuracy	0.05%	±	2.250	A		& Vin	>	0.060	V
CCM Accuracy	0.05%	±	2.250	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	2.250	A	External				
Programmable Protection					Program	0~10 Volts Input yields			
Power(OPP)					Accuracy	Same As Internal ± 0.1% Rating			
Range	15.75	~	12,600	W	Input Impedance	400.0	±	1 %	KΩ
Resolution					BandWidth(-3dB)	Limited By Internal Adjustable Transient Time			
Accuracy	0.50%		126.0	W	Monitor output Signal	0~10 Volts output for 0~full scaled Value			
Voltage(OVP)					VMON Accuracy	0.10%	±	0.060	V
Range	0.039	~	63.00	V	IMON Accuracy	0.10%	±	2.250	A
Resolution									
Accuracy	0.20%	±	0.079	V	Others				
Current(OCF)					Transient Mode				
Range	0.984	~	1,575	A	Frequency Range	0.100	~	10,000	Hz
Resolution					Accuracy			0.1%	
Accuracy	0.20%	±	2.953	A	Duty Range	1.000	~	100.0	%
Under Voltage Lockout(UVL)					Accuracy			0.1%	
Mode	Input On/Continuous				Remote Interface	GPIOB/RS-232/ETHERNET/USB			
Range	0.045	~	60.00	V	Fluid				
Resolution					Valve	Normal Close(Power On Thermal Control)			
Accuracy	2.50%	±	0.075	V	Flow Rate(Pmax)	≥ 3.0 GPM @ 15°CFluid In			
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable				Derating for higher temperatures	(-)3% Rated Power/°C			
Protection					Pressure	<80 PSI			
Over Power Protection(OP)	12,600	±	240.0	W	Pipe Size	1/2" NPT Female			
Over Voltage Protection(OV)	63.00	±	1.200	V	Decondensation	Valve Thermal Control			
Over Current Protection(OC)	1,650	±	15.71	A	General				
Over Temperature Protection(OTP)	50.00	±	5.000	°C	AC Input	85~240 Vac 48~62 Hz			
Reverse Maximum Current(RCP)	1,650		A		Power Consumption	120 VA			
Short Maximum Current		1,530	A		Operating Temperature	5 °C	~	40 °C	
Remote Inhibit(RI)	Short				Dimension	27.5(L)x17(W)x3.5(H)			
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				Weight	80 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 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-60-1500 (60V,1500A,12KW) OPERATIONAL CURVE

