

PLW18K-60-1500

Constant Voltage Mode					Constant Power Mode				
CVH Range	0.000	~	60.00	V	CPH Range	0.000	~	18,000	W
CVM Range	0.000	~	30.00	V	CPM Range	0.000	~	9,000	W
CVL Range	0.000	~	6.000	V		@ lin	≤	750.0	A
Transient Time Range					CPL Range	0.000	~	1,800	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 Coefficient100 ppm/°C of Rated Voltage					Temperature Coefficient300 ppm/°C of Rated Power				
Program					Program				
CVH Resolution*2			3.750	mV	CPH Resolution*2			1.125	W
CVM Resolution*2			1.875	mV	CPM Resolution*2			0.563	W
CVL Resolution*2			0.375	mV	CPL Resolution*2			0.113	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 Current Mode					Constant Resistor Mode				
CCH Range	0.000	~	1,500	A	CRH Range	0.4000	~	13.33	Ohm
CCM Range	0.000	~	750.0	A		@ lin	≤	150.0	A
CCL Range	0.000	~	150.0	A	CRM Range	0.0400	~	6.667	Ohm
Transient Time Range					CRL Range	0.0004	~	0.0400	Ohm
Fast Band(Default,Osc1)	0.050	~	51.19	ms	Transient Time Range	Same As CC Mode			
Slow Band(Osc2,Osc3)	0.500	~	511.9	ms	CRM/CRH	Same As CV Mode			
Minimum Voltage(I _{Max})			0.600	V	CRL				
Temperature Coefficient100 ppm/°C of Rated Current					Temperature Coefficient				
Program					CRM/H	300 ppm/°C of Minimum Resistance			
CCH Resolution*2			93.75	mA	CRL	300 ppm/°C of Maximum Resistance			
CCM Resolution*2			46.88	mA	Program				
CCL Resolution*2			9.375	mA	CRH Resolution*2			0.156	mS
CCH Accuracy*2	0.05%	±	2.250	A	CRM Resolution*2			1.563	mS
CCM Accuracy*2	0.05%	±	2.250	A	CRL Resolution*2			0.003	mΩ
CCL Accuracy*2	0.05%	±	2.250	A	CRH Accuracy*2	1.00%	±	12.50	mS
Transient Time Accuracy	10.0%	±	50% of Minimum Time			@lin	>	1.500	A
Readback						& Vin	>	12.00	V
CCH Resolution			93.75	mA	CRM Accuracy*2	1.00%	±	50.00	mS
CCM Resolution			46.88	mA		@lin	>	15.00	A
CCL Resolution			9.375	mA		& Vin	>	6.000	V
CCH Accuracy	0.05%	±	2.250	A	CRL Accuracy*2	1.00%	±	0.040	mΩ
CCM Accuracy	0.05%	±	2.250	A		@lin	>	150.0	A
CCL Accuracy	0.05%	±	2.250	A		& Vin	>	0.060	V
Programmable Protection					Transient Time Accuracy	10.0%	±	50% of Minimum Time	
Power(OPP)					External				
Range	23.63	~	18,900	W	Program	0~10 Volts Input yields			
Resolution			2.363	W	Accuracy	0~selected full scaled loading in all modes			
Accuracy	0.50%		47.25	W		Same As Internal	± 0.1%	Rating	
Voltage(OVP)					Input Impedance	400.0	±	1 %	KΩ
Range	0.039	~	63.00	V	BandWidth(-3dB)	Limited By Internal Adjustable Transient Time			
Resolution			0.004	V	Monitor output Signal	0~10 Volts output for 0~full scaled Value			
Accuracy	0.20%	±	0.079	V	VMON Accuracy	0.10%	±	0.060	V
Current(OCF)					IMON Accuracy	0.10%	±	2.250	A
Range	0.984	~	1,575	A					
Resolution			0.098	A					
Accuracy	0.20%	±	1.969	A					
Under Voltage Lockout(UVL)					Others				
Mode	Input On/Continuous				Transient Mode				
Range	0.045	~	60.00	V	Frequency Range	0.100	~	10,000	Hz
Resolution			0.015	V	Accuracy			0.1%	
Accuracy	2.50%	±	0.075	V	Duty Range	1.000	~	100.0	%
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable				Accuracy			0.1%	
Protection					Remote Interface	GPIO/RS-232/ETHERNET/USB			
Over Power Protection(OP)	18,900	±	360.0	W	Fluid				
Over Voltage Protection(OV)	63.00	±	1.200	V	Valve	Normal Close(Power On Thermal Control)			
Over Current Protection(OC)	1,650	±	15.71	A	Flow Rate(Pmax)	≥	4.5	GPM @ 15°C	Fluid In
Over Temperature Protection(OTP)	50.00	±	5.000	°C	Derating for higher temperatures	(-)3% Rated Power/°C			
Reverse Maximum Current(RCP)	1,650			A	Pressure	<80 PSI			
Short Maximum Current			1,530	A	Pipe Size	1/2" NPT Female			
Remote Inhibit(RI)	Short				Decondensation	Valve Thermal Control			
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				General				
Dielectric Strength					AC Input	85~240 Vac 48~62 Hz			
Primary Circuit To Chassis	1500 VAC for 1 MIN				Power Consumption	120 VA			
Primary Circuit To Load Terminal	1500 VAC for 1 MIN				Operating Temperature	5 °C	~	40 °C	
Load Terminal To Chassis	1500 VDC for 1 MIN				Dimension	27.5(L)x17(W)x3.5(H)			
					Weight	90 LBS			

*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

R&D-SPEC-PLW18K-60-1500

Rev.: 1

Page 1 of 2

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PLW18K-60-1500 (60V,1500A,18KW) OPERATIONAL CURVE

