

PLA6K-800-100

Constant Voltage Mode				Constant Power Mode			
CVH Range	0.000	~	800.0 V	CPH Range	0.000	~	6,000 W
CVM Range	0.000	~	400.0 V	CPM Range	0.000	~	3,000 W
CVL Range	0.000	~	80.00 V		@ lin	≤	50.00 A
Transient Time Range				CPL Range	0.000	~	600.0 W
Fast Band(Default,Osc1)	0.500	~	51.19 ms		@ lin	≤	10.00 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		50.00	mV	CPH Resolution*2		0.375	W
CVM Resolution*2		25.00	mV	CPM Resolution*2		0.188	W
CVL Resolution*2		5.000	mV	CPL Resolution*2		0.038	W
CVH Accuracy*2	0.05%	±	0.800 V	CPH Accuracy*2	1.00%	±	30.00 W
CVM Accuracy*2	0.05%	±	0.800 V		@lin	>	5.000 A
CVL Accuracy*2	0.05%	±	0.800 V		& Vin	>	80.00 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CPM Accuracy*2	1.00%	±	30.00 W
Readback					@lin	>	1.000 A
CVH Resolution		50.00	mV		& Vin	>	80.00 V
CVM Resolution		25.00	mV	CPL Accuracy*2	1.00%	±	30.00 W
CVL Resolution		5.000	mV		@lin	>	0.100 A
CVH Accuracy	0.05%	±	0.800 V		& Vin	>	160.0 V
CVM Accuracy	0.05%	±	0.800 V	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.800 V	Constant Resistor Mode			
Constant Current Mode				CRH Range	80.00	~	2,667 Ohm
CCH Range	0.000	~	100.0 A		@ lin	≤	10.00 A
CCM Range	0.000	~	50.00 A	CRM Range	8.000	~	1,333 Ohm
CCL Range	0.000	~	10.00 A	CRL Range	0.0200	~	8.000 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})		2.000	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		6.250	mA	Program			
CCM Resolution*2		3.125	mA	CRH Resolution*2		0.0008	mS
CCL Resolution*2		0.625	mA	CRM Resolution*2		0.0078	mS
CCH Accuracy*2	0.05%	±	0.150 A	CRL Resolution*2		0.5000	mΩ
CCM Accuracy*2	0.05%	±	0.150 A	CRH Accuracy*2	1.00%	±	0.063 mS
CCL Accuracy*2	0.05%	±	0.150 A		@lin	>	0.100 A
Transient Time Accuracy	10.0%	±	50% of Minimum Time		& Vin	>	160.0 V
Readback				CRM Accuracy*2	1.00%	±	0.250 mS
CCH Resolution		6.250	mA		@lin	>	1.000 A
CCM Resolution		3.125	mA		& Vin	>	80.00 V
CCL Resolution		0.625	mA	CRL Accuracy*2	1.00%	±	16.00 mΩ
CCH Accuracy	0.05%	±	0.150 A		@lin	>	10.00 A
CCM Accuracy	0.05%	±	0.150 A		& Vin	>	0.800 V
CCL Accuracy	0.05%	±	0.150 A	Transient Time Accuracy	10.0%	±	50% of Minimum Time
Programmable Protection				External			
Power(OPP)				Program	0~10 Volts Input yields		
Range	8.250	~	6,600 W		0~selected full scaled loading in all modes		
Resolution		0.825	W	Accuracy	Same As Internal	± 0.1%	Rating
Accuracy	0.50%		16.50 W	Input Impedance	400.0	±	1 % KΩ
Voltage(OVP)				BandWidth(-3dB)	Limited By Internal Adjustable Transient Time		
Range	0.525	~	840.0 V	Monitor output Signal	0~10 Volts output for 0~full scaled Value		
Resolution		0.053	V	VMON Accuracy	0.10%	±	0.800 V
Accuracy	0.20%	±	1.050 V	IMON Accuracy	0.10%	±	0.150 A
Current(OCP)				Others			
Range	0.066	~	105.0 A	Transient Mode			
Resolution		0.007	A	Frequency Range	0.100	~	10,000 Hz
Accuracy	0.20%	±	0.131 A	Accuracy		0.1%	
Under Voltage Lockout(UVL)				Duty Range	1.000	~	100.0 %
Mode	Input On/Continuous			Accuracy		0.1%	
Range	0.600	~	800.0 V	Remote Interface	GPIO/RS-232/ETHERNET/USB		
Resolution		0.200	V				
Accuracy	2.00%	±	1.000 V	Derating for higher temperatures	(-)1.67% Rated Power/°C		
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable			General			
Protection				AC Input	85~240 Vac 48~62 Hz		
Over Power Protection(OP)	6,600	±	125.7 W	Operating Temperature	5	~	40 °C
Over Voltage Protection(OV)	840.0	±	16.00 V	Dimension	17(W)x10.5(H)x24.5(L)		
Over Current Protection(OC)	110.0	±	1.048 A	Weight	135 LBS		
Over Temperature Protection(OTP)	90.00	±	5.000 °C	Dielectric Strength			
Reverse Maximum Current(RCP)	110.0		A	Primary Circuit To Chassis	1500 VAC for 1 MIN		
Short Maximum Current		102.0	A	Primary Circuit To Load Terminal	1500 VAC for 1 MIN		
Remote Inhibit(RI)	Short			Load Terminal To Chassis	1500 VDC for 1 MIN		
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			Operating Temperature	5	~	40 °C
Primary Circuit To Load Terminal	1500 VAC for 1 MIN			Dimension	17(W)x10.5(H)x24.5(L)		
Load Terminal To Chassis	1500 VDC for 1 MIN			Weight	135 LBS		

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

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

Ver 1.0

Date : 12/12/05

PLA6K-800-100 (800V,100A,6KW) OPERATIONAL CURVE

