

Constant Voltage Mode

Program	CVH Range	0.000 ~ 400.0 V
	CVM Range	0.000 ~ 200.0 V
	CVL Range	0.000 ~ 40.00 V
Display	Transient Time Range	
	Fast Band(Default,Osc1)	0.500 ~ 51.19 ms
	Slow Band(Osc2,Osc3)	0.500 ~ 511.9 ms
	Temperature Coefficient	100 ppm / °C of Rated Voltage
Program	CV Resolution*2	1/16000 of Rated Voltage
	CVH Accuracy*2	0.05% ± 0.400 V
	CVM Accuracy*2	0.05% ± 0.400 V
	CVL Accuracy*2	0.05% ± 0.400 V
Display	CVH Resolution	1/16000 of Rated Voltage
	CVH Accuracy	0.05% ± 0.400 V
	CVM Accuracy	0.05% ± 0.400 V
	CCL Accuracy	0.05% ± 0.400 V

Constant Current Mode

Program	CCH Range	0.000 ~ 600.0 A
	CCM Range	0.000 ~ 300.0 A
	CCL Range	0.000 ~ 60.00 A
Display	Transient Time Range	
	Fast Band(Default,Osc1)	0.050 ~ 51.19 ms
	Slow Band(Osc2,Osc3)	0.500 ~ 511.9 ms
	Minimum Voltage(I _{Max})	0.900 V
Program	Temperature Coefficient	100 ppm / °C of Rated Current
	CC Resolution*2	1/16000 of Rated Current
	CCH Accuracy*2	0.05% ± 0.600 A
	CCM Accuracy*2	0.05% ± 0.600 A
Display	CCL Accuracy*2	0.05% ± 0.600 A
	CC Resolution	1/16000 of Rated Current
	CCH Accuracy	0.05% ± 0.600 A
	CCM Accuracy	0.05% ± 0.600 A
	CCL Accuracy	0.05% ± 0.600 A

Programmable Protection

Program	Power(OPP)	
	Range	27.50 ~ 22,000 W
Display	Resolution	2.750 W
	Accuracy	0.50% ± 55.00 W
Program	Voltage(OVP)	
	Range	0.263 ~ 420.0 V
Display	Resolution	0.026 V
	Accuracy	0.20% ± 0.525 V
Program	Current(OCP)	
	Range	0.394 ~ 630.0 A
Display	Resolution	0.039 A
	Accuracy	0.20% ± 0.788 A
Program	Under Voltage Lockout(UVL)	
	Mode	Input On / Continuous
Display	Range	0.300 ~ 400.0 V
	Resolution	0.100 V
Program	Accuracy	2.50% ± 0.500 V
	Anti-Oscillation	Default / Osc1 / Osc2 / Osc3 / Disable

Protection

Program	Over Power Protection(OP)	22,000 ± 419.0 W
	Over Voltage Protection(OV)	420.0 ± 8.000 V
Display	Over Current Protection(OC)	660.0 ± 6.286 A
	Over Temperature Protection(OTP)	90.00 ± 5.000 °C
Program	Reverse Maximum Current(RCP)	660.0 A
	Short Maximum Current	612.0 A
Display	Remote Inhibit(RI)	Short
	Fault Indicator	SPDT Relay (30Vdc/0.5A or 125Vac/0.25A)

Dielectric Strength

Program	Primary Circuit To Chassis	1500 Vac for 1 min
	Primary Circuit To Load Terminal	1500 Vac for 1 min
Display	Load Terminal To Chassis	1500 Vdc for 1 min

Constant Power Mode

Program	CPH Range	0.000 ~ 20,000 W
	CPM Range	0.000 ~ 10,000 W
Display	@ lin	≤ 300.0 A
	CPL Range	0.000 ~ 2,000 W
Program	@ lin	≤ 60.00 A
	Transient Time Range	Same As CC Mode
Display	Temperature Coefficient	300 ppm / °C of Rated Power
	CP Resolution*2	1/16000 of Rated Power
Program	CPH Accuracy*2	1.00% ± 100.0 W
	@ lin	> 30.00 A
Display	& Vin	> 40.00 V
	CPM Accuracy*2	1.00% ± 100.0 W
Program	@ lin	> 6.000 A
	& Vin	> 40.00 V
Display	CPL Accuracy*2	1.00% ± 100.0 W
	@ lin	> 0.600 A
Program	& Vin	> 80.00 V

Constant Resistance Mode

Program	CRH Range	6.667 ~ 333.3 Ω
	@ lin	≤ 60.00 A
Display	CRM Range	0.6667 ~ 166.7 Ω
	CRL Range	0.0015 ~ 0.6667 Ω
Program	Transient Time Range	Same As CC Mode
	CRM / CRH	Same As CV Mode
Display	CRL	Same As CV Mode
	Temperature Coefficient	
Program	CRM / H	300 ppm / °C of Minimum Resistance
	CRL	300 ppm / °C of Maximum Resistance
Display	CR Resolution*2	1/16000 Of Rated Value
	CRH Accuracy*2	1.00% ± 0.750 mS
Program	@ lin	> 0.600 A
	& Vin	> 80.00 V
Display	CRM Accuracy*2	1.00% ± 3.000 mS
	@ lin	> 6.000 A
Program	& Vin	> 40.00 V
	CRL Accuracy*2	1.00% ± 0.667 mΩ
Display	@ lin	> 60.00 A
	& Vin	> 0.400 V

External Programming Mode

Program	Analog Program	0~10 Volts Input yields
		0~selected full scaled loading in all modes
Display	Accuracy	Same As Internal ± 0.1% Rating
	Input Impedance	400 kΩ ± 1 %
Program	BandWidth(-3dB)	Limited By Internal Transient Time
	Monitor output Signal	0~10 Volts output for 0~full scaled Value
Display	VMON Accuracy	0.10% ± 0.400 V
	IMON Accuracy	0.10% ± 0.600 A
Program	Transient Mode	
	Frequency Range	0.100 ~ 10,000 Hz
Display	Accuracy	0.1%
	Duty Range	1.000 ~ 100.0 %
Program	Accuracy	0.1%
	Transient Time Accuracy	10.0% ± 50% of Minimum Time
Display	Remote Interface	GPIOB / RS-232 / ETHERNET / USB

General

Program	Derating for higher temperatures	(-)1.67% Rated Power / °C
	AC Input	95~240 Vac 48~62 Hz
Display	Power Consumption	630 VA
	Operating Temperature	5 °C ~ 40 °C
Program	Dimension (Unit)	24.5"(L)x17.0"(W)x10.5"(H)--Two 6U Boxes
		24.5"(L)x17.0"(W)x7.0"(H)--One 4U Box
Display	Dimension with cabinet	38.2"(L)x23.5"(W)x60.5"(H)--30U cabinet
	Weight (Unit)	135 lbs 61.2 kg--Two 6U Boxes
Program		105 lbs 47.6 kg--One 4U Box
	Weight with cabinet	517 lbs 234.5 kg
Display	Approx.Shipping Weight (Unit)	195 lbs 88.5 kg--Two 6U Boxes
		145 lbs 65.8 kg--One 4U Boxes
Program	Approx.Shipping Weight with cabinet	800 lbs 362.9 kg

Ver 3.1

Date: 11/10/07

*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



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PLA20K-400-600 (400V,600A,20KW) OPERATIONAL CURVE

