

Constant Voltage Mode

CVH Range	0.000 ~ 600.0	V
CVM Range	0.000 ~ 300.0	V
CVL Range	0.000 ~ 60.00	V
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% ± 0.600 V
	CVM Accuracy*2	0.05% ± 0.600 V
	CVL Accuracy*2	0.05% ± 0.600 V

Display	CVH Resolution	1/16000 of Rated Voltage
	CVH Accuracy	0.05% ± 0.600 V
	CVM Accuracy	0.05% ± 0.600 V
	CCL Accuracy	0.05% ± 0.600 V

Constant Current Mode

CCH Range	0.000 ~ 400.0	A
CCM Range	0.000 ~ 200.0	A
CCL Range	0.000 ~ 40.00	A
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})	2.000	V
Temperature Coefficient	100 ppm / °C of Rated Current	

Program	CC Resolution*2	1/16000 of Rated Current
	CCH Accuracy*2	0.05% ± 0.400 A
	CCM Accuracy*2	0.05% ± 0.400 A
	CCL Accuracy*2	0.05% ± 0.400 A

Display	CC Resolution	1/16000 of Rated Current
	CCH Accuracy	0.05% ± 0.400 A
	CCM Accuracy	0.05% ± 0.400 A
	CCL Accuracy	0.05% ± 0.400 A

Programmable Protection

Power(OPP)		
Range	27.50 ~ 22,000	W
Resolution	2.750	W
Accuracy	0.50% ± 55.00	W
Voltage(OVP)		
Range	0.394 ~ 630.0	V
Resolution	0.039	V
Accuracy	0.20% ± 0.788	V
Current(OCP)		
Range	0.263 ~ 420.0	A
Resolution	0.026	A
Accuracy	0.20% ± 0.525	A
Under Voltage Lockout(UVL)		
Mode	Input On / Continuous	
Range	0.450 ~ 600.0	V
Resolution	0.150	V
Accuracy	2.50% ± 0.750	V
Anti-Oscillation	Default / Osc1 / Osc2 / Osc3 / Disable	

Protection

Over Power Protection(OP)	22,000 ± 419.0	W
Over Voltage Protection(OV)	630.0 ± 12.00	V
Over Current Protection(OC)	440.0 ± 4.190	A
Over Temperature Protection(OTP)	90.00 ± 5.000	°C
Reverse Maximum Current(RCP)	440.0	A
Short Maximum Current	408.0	A
Remote Inhibit(RI)	Short	
Fault Indicator	SPDT Relay (30Vdc/0.5A or 125Vac/0.25A)	

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

Constant Power Mode

CPH Range	0.000 ~ 20,000	W
CPM Range	0.000 ~ 10,000	W
	@ lin ≤ 200.0	A
CPL Range	0.000 ~ 2,000	W
	@ lin ≤ 40.00	A
Transient Time Range	Same As CC Mode	
Temperature Coefficient	300 ppm / °C of Rated Power	

Program	CP Resolution*2	1/16000 of Rated Power
	CPH Accuracy*2	1.00% ± 100.0 W
		@lin > 20.00 A
		& Vin > 60.00 V
	CPM Accuracy*2	1.00% ± 100.0 W
		@lin > 4.000 A
		& Vin > 60.00 V
	CPL Accuracy*2	1.00% ± 100.0 W
		@lin > 0.400 A
		& Vin > 120.0 V

Constant Resistance Mode

CRH Range	15.00 ~ 750.0	Ω
	@ lin ≤ 40.00	A
CRM Range	1.500 ~ 375.0	Ω
CRL Range	0.0050 ~ 1.500	Ω

Transient Time Range	Same As CC Mode
CRM / CRH	Same As CV Mode
CRL	

Temperature Coefficient	
CRM / H	300 ppm / °C of Minimum Resistance
CRL	300 ppm / °C of Maximum Resistance

Program	CR Resolution*2	1/16000 Of Rated Value
	CRH Accuracy*2	1.00% ± 0.333 mS
		@lin > 0.400 A
		& Vin > 120.0 V
	CRM Accuracy*2	1.00% ± 1.333 mS
		@lin > 4.000 A
		& Vin > 60.00 V
	CRL Accuracy*2	1.00% ± 1.500 mΩ
		@lin > 40.00 A
		& Vin > 0.600 V

External Programming Mode

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

General

Derating for higher temperatures	(-)1.67% Rated Power / °C
AC Input	95~240 Vac 48~62 Hz
Power Consumption	630 VA
Operating Temperature	5 °C ~ 40 °C
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
Dimension with cabinet	38.2"(L)x23.5"(W)x60.5"(H)--30U cabinet
Weight (Unit)	135 lbs 61.2 kg--Two 6U Boxes 105 lbs 47.6 kg--One 4U Box
Weight with cabinet	517 lbs 234.5 kg
Approx.Shipping Weight (Unit)	195 lbs 88.5 kg--Two 6U Boxes 145 lbs 65.8 kg--One 4U Boxes
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-600-400 (600V,400A,20KW) OPERATIONAL CURVE

