

### PMX-A SERIES



PMX-A mascot Pobby

## Compact DC Power Supply PMX-A Series

Compact, high-performance series regulator system
LAN (LXI compliant) / USB / RS232C as standard interface
Free downloads (Limited function edition) of "Wavy" sequence creation software





A standard feature of the networking capability provides extended applications of the ordinary testing.

# New-generation of the compact power supply PMX-A Series



- Series regulator system with excellent noise performance
- High setting resolution Voltage: 1 mV, Current: 0.1 mA (PMX18-2A)
- Wide range of output variations (9 models are available)
- LAN (LXI compliant) / USB / RS232C as standard interface
- External analog remote control
- Monitoring and status signal output
- CV, CC priority start function (to prevent overshoot when the output is ON)
- Remote sensing function (18 V, 35 V models)
- Key lock, 3-point preset memory function

The PMX-A series is a compact, high-performance DC power supply that provides constant voltage (CV) and constant current (CC). It is designed to improve working efficiency for benchtop uses. For this purpose, the output terminals are located on the front panel and are ergonomically designed so that wiring harnesses for electrical loads can be connected by moving your fingers naturally. Moreover, a forced air cooling system is used to intake and exhaust of the internal air, so the unit can be rack mounted without space. Furthermore, the PMX-A is equipped with LAN, USB, and RS232C interfaces as standard interfaces required for system operation. In particular, the LAN interface enables you to control and monitor the power supply from Web browsers on PCs. smartphones, tablets, and other terminal devices. Moreover, the PMX-A is LXI (LAN eXtention for Instrumentation) certified product, so it can be connected easier with

your measurement system using LAN interface. The PMX-A is also equipped with remote sensing (for 18 V, 35 V models only), analog external control/monitoring output, various protective functions, memory function, and other functions.



The Safety cover is included for the model above 70 V output rating.

REGULATED DC POWER SUPPLY **® KIKUSUI** PMX18-2A 0-18V 2A **VOLTAGE** OUTPUT CURRENT ALARM LAN LOCK REMOTE PRESET-A OVP-OCP CONFIG LOCK LOCAL **⚠DC OUTPUT** ASENSING 0-18V CAUGE AW 320-14 **EU/GB Models Actual** 234Vac ± 10% size

Series line-up

	Output		Ripple		Line Regulation		Load Regulation		Weight	Power Source*	Power Consumption*
Model	CV	CC	CV	CC	CV	CC	CV	CC	kg / lbs	AC	Approx.
	V	Α	mVrms	mArms	mV	mA	mV	mA	kg / lbs	V±10%	VA
PMX18-2A	0 to 18	0 to 2	0.5	1	±1	±5	±2	±5	5 / 11.02	100	150
PMX18-5A	0 to 18	0 to 5	0.5	2	±1	±5	±5	±5	6 / 13.23	100	310
PMX35-1A	0 to 35	0 to 1	0.5	1	±3	±5	±3	±5	5 / 11.02	100	150
PMX35-3A	0 to 35	0 to 3	0.5	1	±3	±5	±4	±5	6 / 13.23	100	310
PMX70-1A	0 to 70	0 to 1	1	1	±5	±2	±5	±5	6 / 13.23	100	230
PMX110-0.6A	0 to 110	0 to 0.6	2	1	±7	±2	±7	±5	6 / 13.23	100	210
PMX250-0.25A	0 to 250	0 to 0.25	3	1	±15	±1	±15	±5	6 / 13.23	100	210
PMX350-0.2A	0 to 350	0 to 0.2	5	1	±25	±1	±25	±5	6 / 13.23	100	230
PMX500-0.1A	0 to 500	0 to 0.1	10	1	±30	±1	±30	±3	6 / 13.23	100	170

### **Communication interfaces are standard features**

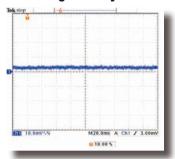




PMX-A SERIES

# SI USB RS232C LAN A JI F THIS COLUMN IS BLANK THE LINN'I IS WHED IN 100V SITTING VICINIC SITTING VICINIC SITING VICINIC SIT

### Series regulator system with excellent noise performance



### High stability and Low Ripple Noise

The PMX-A is based on the capacitorinput type of the series regulator design and which output can be generated with low noise and low ripple compared to the switching regulator design.

■ Ripple waveform (PMX18-5A)
[Measurement Condition] Resistive Load,
Oscilloscope in 20 MHz bandwidth

### Improved usability







▲ Ergonomically designed for the wiring load harness

▲The handle makes you easy to carry

### Free downloads of "Wavy" sequence creation software

Limited function edition

The limited function of the optional sequence creation and control software "SD025-PMX (Wavy for PMX)" is available to be downloaded free of charge. For details, please refer to the following information and our WEB. \* The number of steps is limited up to 5 steps.

### **■** Application Software

Rear panel

Sequence Creation Software SD025-PMX (Wavy for PMX)

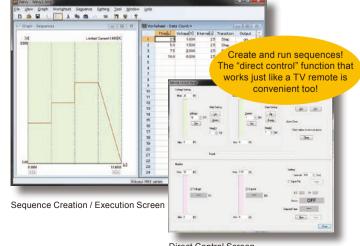
The software that supports to the auto testing of the power supply.

And it allows you to create and edit sequence data easily using a mouse!

The SD025-PMX (Wavy for PMX) is an application software that supports sequence creation and the operation of the Kikusui power supplie and the electronic load. The "Wavy" software allows you to create and edit sequences visually using a mouse without programming knowledge. It enables you to control the power supply in much the same way as remote controller for such monitoring the voltage and current, logging and so on.

### [Operating environment, conditions]

- ●The "Wavy" software can control only one unit of the power supply
- ●CPU:Recommended: Core2 or better
- ●CD-ROM: Reguired to install the "Wavy"
- ●Mouse: Required
- ●Monitor: 1024 x 768 dots or higher resolution
- •Memory: 2GB or more
- ●Interfaces: LAN, USB, RS232C





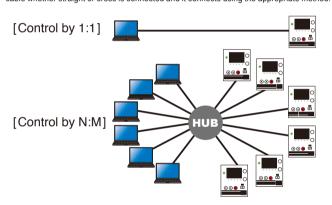
# Digital, analog and other various external controls are supported. Remote control and monitoring can also be performed from Web browsers!

The PMX-A series is equipped with LAN, USB, and RS232C interfaces as standard communication interfaces. These interfaces enable remote control and monitoring to be performed efficiently in 1-to-N node configurations as well as in N-to-M node configurations even under large-scale networks. In particular, the LAN interface enables you to control and monitor the power supply through a browser on the PC, smartphone, tablet, or other terminal devices by accessing the built-in Web server of the PMX-A series.

### ■ LAN Interface

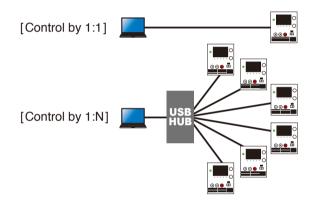
The LAN interface can control the number of devices with high speed, and it's theoretical controllable maximum number is to be calculated by approximately 4.2 billion. (The maximum transmission speed varies by the number of connected devices) In accordance with its applied standard, it is possible to combine the device that is to control or to be controlled, it is also the feature that it can be used with various applications. Also, in computers installed with Apple Bonjour, it is possible to access with a host name instead of the IP address.

AUTO MDIX function: The PMX-A series can automatically identify the type of LAN cable whether straight or cross is connected and it connects using the appropriate method.



### ■ USB Interface

The USB interface has a feature of high versatility, and the ease of a setup. The automatic recognition by the plug and play releases a user from the complex setting operation under the digital control, and it can be suitable interface when control by 1:1. In accordance with the standard, the maximum number of the connected devices can be configured up to 127 units. Moreover, the USB interface of the PWX series complies to USB2.0, and it has realized transmission speed of a maximum of 12 Mbps (es) (Full Speed).



### ■ RS232C Interface

It can be used for communication with PCs and sequencers.









### SERIES

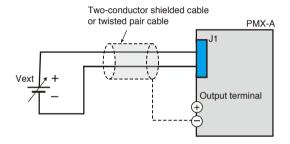
### Analog Interface

The PMX-A series is equipped with external voltage/resistance control, which are interfaces necessary for analog external control and monitoring applications for test power supply devices. The input external signal and the output status signal can be conducted through the J1 connector on the rear panel.

### Controlling the Output Voltage & Output Current.

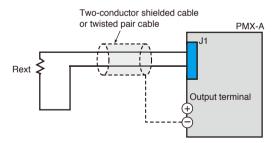
[Control using an external voltage(Vext)]

It is possible to control the output voltage and output current of the PMX-A series by using an external voltage.



### [Control using an external resistance(Rext)]

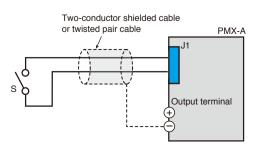
It is possible to control the output voltage and output current of the PMX-A series by using an external variable resistor.



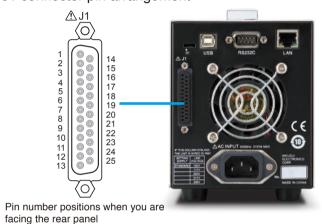
### Turning output on and off

[Control using an external contact (S)]

It is possible to turn the output ON/OFF of the PMX-A series by using an external contact.



### J1 connector pin arrangement



Pin No.	Signal name	Description
1	VMON	Output voltage monitor; outputs 0 V to 10 V for 0 % to 100 % of the rated output voltage
2	IMON	Output current monitor; outputs 0 V to 10 V for 0 % to 100 % of the rated output current.
3	ACOM	External signal common for pins 1, 2, 4, and 14. *1
4	EXT-V CV CONT	Output voltage control using external voltage; receives 0 V to 10 V to output 0 % to 100 % of the rated voltage.
5	ACOM	External signal common for pins 1, 2, 4, and 14. *1
6	EXT-R CV CONT	Output voltage control using external resistance; uses 0 $\Omega$ to 10 k $\Omega$ to output 0 % to 100 % of the rated voltage.
7	EXT-R CV CONT COM	Common for output voltage control using external resistance.
8	N.C.	Not connected.
9	N.C.	Not connected.
10	N.C.	Not connected.
11	CV STATUS	On when the PMX series is in CV mode (open-collector output from a photocoupler).*2
12	CC STATUS	On when the PMX series is in CC mode (open-collector output from a photocoupler).*2
13	ALM STATUS	On when a protection function (OVP, OCP, or OHP) is activated (open-collector output from a photocoupler).*2
14	EXT-V CC CONT	Output current control using external voltage; receives 0 V to 10 V to output 0 % to 100 % of the rated current.
15	ACOM	External signal common for pins 1, 2, 4, and 14.1*1
16	EXT-R CC CONT	Output current control using external resistance; uses 0 $\Omega$ to 10 k $\Omega$ to output 0 % to 100 % of therated current.
17	EXT-R CC CONT COM	Common for output current control using external resistance.
18	OUT ON/OFF CONT	Output on/off control using external contact input.
19	DCOM	External signal common for pin 18.*1
20	N.C.	Not connected.
21	N.C.	Not connected.
22	N.C.	Not connected.
23	OUT ON STATUS	On when output is on (output through an open-collector photocoupler).*2
24	PWR ON STATUS	On when the power is on (output through an open-collector photocoupler).*2
25	STATUS COM	Status signal common for pins 11, 12, 13, 23, and 24.

<sup>\*1.</sup> During remote sensing, this is the negative electrode (-S) of sensing input. When remote sensing is not being performed, this isconnected to the negative output

<sup>\*2.</sup> Open collector output: maximum voltage 30 V, maximum current (sink) 8 mA; the status common is floating (isolation voltage or less), it is isolated from the control circuit.

### EU/GB Models 234Vac ± 10%

**■** Specifications

AC input Nominal input	1/		PMX18-2A	PMX18-5A	PMX35-1A	PMX35-3A	PMX70-1A	PMX110-0.6A	PMX250-0.25A	PMX350-0.2A	PMX500-0.1	
	rating -					100 Vac *1	, 50 Hz / 60 Hz, s	ingle phase				
nput voltage r							± 10 %					
nput frequenc	cy range						47 Hz to 63 Hz					
nrush current	(MAX) *2		50 Amax or less	60 Amax or less	45 Amax or less	60 Amax or less	65 Amax or less	55 Amax or less	40 Amax or less	55 Amax or less	40 Amax or le	
Power (MAX)	*3		150 VA	310 VA	150 VA	310 VA	230 VA	210 VA	210 VA	230 VA	170 VA	
Output					·							
	Output voltage		18.00 V	18.00 V	35.00 V	35.00 V	70.00 V	110.0 V	250.0 V	350.0 V	500.0 V	
Rating	Output current		2.000 A	5.000 A	1.000 A	3.000 A	1.000 A	0.600 A	0.250 A	0.200A	0.100 A	
	Output power		36 W	90 W	35 W	105 W	70 W	66 W	62.5 W	70 W	50 W	
	Setting range		0 V to 18.90 V	0 V to 18.90 V	0 V to 36.75 V	0 V to 36.75 V	0 V to 73.5 V	0 V to 115.5 V	0 V to 262.5 V	0 V to 367.5 V	0 V to 525.0	
Setting resolution *4 Setting accuracy			1	mV		2 mV		10	mV			
		± (0.2 % of setting +0.1 % of rating)           ±1 mV         ±3 mV         ±3 mV         ±5 mV         ±7 mV         ±15 mV         ±25 mV         ±30 mV										
	Line regulation *	ne regulation *5		±1 mV	±3 mV	±3 mV	±5 mV	±7 mV	±15 mV	±25 mV	±30 mV	
	Load regulation *6		±2 mV	±5 mV	±3 mV	±4 mV	±5 mV	±7 mV	±15 mV	±25 mV	±30 mV	
	Transient response *7			50	μs				100 µs			
Voltage	Ripple noise (rms) *8			0.5	mV		1 mV	2 mV	3 mV	5 mV	10 mV	
	Rise time *9			120 ms	or less		150 ms or less	120 ms or less	120 ms or less	150 ms or less	120 ms or le	
	No load  Fall time *10  Rated load  No load			120 ms	or less		150 ms or less	120 ms or less	120 ms or less	150 ms or less	120 ms or le	
				50 ms	or less		50 ms or less	50 ms or less	50 ms or less	80 ms or less	50 ms or le	
			270 ms or less	320 ms or less	270 ms or less	270 ms or less	270 ms or less	120 ms or less	120 ms or less	220 ms or less	60 ms or le	
	Maximum remote			0	6 V				_			
	compensation vo	Itage(single line)		· · · · · · · · · · · · · · · · · · ·								
	Temperature coe	efficient (TYP)					100 ppm /°C					
	Setting range		0 A to 2.1 A	0 A to 5.25 A	0 A to 1.05 A	0 A to 3.15 A	0 A to 1.050 A	0 A to 0.630 A	0 A to 0.263 A	0 A to 0.210 A	0 A to 0.105	
	Setting resolution	n *4					0.1 mA					
	Setting accuracy					± (0.3 %	of setting +0.1 %	of rating)				
Current	Line regulation			±5	mA		±2 mA	±2 mA	±1 mA	±1 mA	±1 mA	
	Load regulation				mA	_	±5 mA	±5 mA	±5 mA	±5 mA	±3 mA	
	Ripple noise (rm	s) *8	1 mA	2 mA	1 mA	1 mA			1 mA			
	Temperature coe	efficient (TYP)					200 ppm /°C					
Display function	on											
/oltage	Maximum displa	У		99.9	9 (fixed decimal	point)			999.9 (fixed	decimal point)		
lisplay	Display accuracy	/ *11					% of reading +2					
Current	Maximum displa	У				9.99	9 (fixed decimal p	point)				
display	Display accuracy		± (1 % of reading +5 digits)									
	OUTPUT ON / O	FF	Output on: OUTPUT LED lights in green.Output off: OUTPUT LED turns off.									
	CV operation	CV operation		CV LED lights in green.								
	CC operation		CC LED lights in red.									
	Alarm operation		ALARM LED lights in red when a protection function has been activated.									
Operation display	Remote operatio	n	REMOTE LED lights in green during remote control.									
шоршу		I AN operation	LAN LED lights or blinks depending on the LAN communication status.									
	LAN operation		No fault status: Lights in green.Fault status: Lights in red.Standby status: Lights in orange.WEB identify status: Blinks green.									
	Key lock operation		LOCK LED lights in green when the keys are locked.									
		711			L	OCK LED lights	in green when th	e keys are locked	d.			
	Preset memory	)II		W			in green when th ng used, the PRE					
Protection fun	<u> </u>			W								
Protection fun	<u> </u>	Operation		W	/hen a preset me	mory entry is bei		ESET A, B, or C l	ED lights in gree			
Protection fun	<u> </u>	Operation	1.8 V to	1.8 V to	/hen a preset me T 3.5 V to	urns the output o	off, displays OVP,	and lights ALAR	ED lights in gree  M 25 V to	en. 35 V to	50 V to	
	<u> </u>	Operation Setting	1.8 V to 19.8 V		/hen a preset me	urns the output of 3.5 V to 38.5 V	off, displays OVP,	and lights ALAR	ED lights in gree	en.		
	ctions	Operation Setting range		1.8 V to	/hen a preset me T 3.5 V to	urns the output of 3.5 V to 38.5 V	ng used, the PRE  off, displays OVP,  7 V to  77.00 V  % of the rated out	and lights ALAR	ED lights in gree  M 25 V to	en. 35 V to	50 V to	
	ctions	Operation Setting range Setting accuracy		1.8 V to	T 3.5 V to 38.5 V	urns the output o  3.5 V to 38.5 V  10 % to 110	ng used, the PRE  off, displays OVP,  7 V to  77.00 V  % of the rated ou  ± (1 % of rating)	and lights ALAR 11 V to 121.0 V	ED lights in gree  M  25 V to 275.0 V	en. 35 V to	50 V to	
	ctions	Operation Setting range		1.8 V to	T 3.5 V to 38.5 V	urns the output o  3.5 V to 38.5 V  10 % to 110	ng used, the PRE  off, displays OVP,  7 V to  77.00 V  % of the rated out	and lights ALAR 11 V to 121.0 V	ED lights in gree  M  25 V to 275.0 V	en. 35 V to	50 V to	
Overvoltage p	ctions protection (OVP)	Operation Setting range Setting accuracy Operation *12	19.8 V	1.8 V to 19.8 V	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to	urns the output of 3.5 V to 38.5 V to 10 % to 110 urns the output of 0.3 A to	off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  ff, displays OCP,  0.100 A to	and lights ALAR  11 V to 121.0 V  utput voltage  and lights ALAR  0.060 A to	M 25 V to 275.0 V M 0.025 A to	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p	ctions	Operation Setting range Setting accuracy	19.8 V	1.8 V to 19.8 V	/hen a preset me	urns the output of 3.5 V to 38.5 V to 110 % to 110 urns the output of 0.3 A to 3.3 A	ng used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A	and lights ALAR 11 V to 121.0 V  Itput voltage  and lights ALAR 0.060 A to 0.660 A	ED lights in gree  M  25 V to 275.0 V	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p	ctions protection (OVP)	Operation Setting range Setting accuracy Operation *12 Setting range	19.8 V	1.8 V to 19.8 V	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to	urns the output of 3.5 V to 38.5 V to 110 % to 110 urns the output of 0.3 A to 3.3 A	ng used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou  ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou	and lights ALAR 11 V to 121.0 V  Itput voltage  and lights ALAR 0.060 A to 0.660 A	M 25 V to 275.0 V M 0.025 A to	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p	orotection (OVP)	Operation Setting range Setting accuracy Operation *12 Setting range Setting range	19.8 V	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	ng used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p  Overcurrent po  Overheat prote	orotection (OVP)  rotection (OCP)  ection (OHP)	Operation Setting range Setting accuracy Operation *12 Setting range	19.8 V	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	ng used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou  ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent p	orotection (OVP)  rotection (OCP)  ection (OHP)  rol • Signal output	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	ng used, the PRE  off, displays OVP,  7 V to  77.00 V  % of the rated ou  ± (1 % of rating)  off, displays OCP,  0.100 A to  1.100 A  % of the rated ou  ± (1 % of rating)  ff, displays OHP,  ff, displays OHP,	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overcurrent poor overcurrent poor overcurrent poor overcurrent poor overcurrent protesternal Control C	rotection (OVP)  rotection (OCP)  ection (OHP)  rot • Signal output  Voltage monitor	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	ong used, the PRE off, displays OVP, T V to 77.00 V % of the rated ou ± (1 % of rating) ff, displays OCP, 0.100 A to 1.100 A % of the rated ou ± (1 % of rating) ff, displays OHP, 10.00 V ±0.1 V	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent po Overheat protexternal Conti	rotection (OVP)  rotection (OCP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	of the rated ou to (1% of rating)  ff, displays OVP,  7 V to 77.00 V  % of the rated ou to (1% of rating)  ff, displays OCP,  0.100 A to 1.100 A  % of the rated ou to (1% of rating)  ff, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Conti	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output Voltage monitor (VMON)  Current monitor	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At rated current output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110	ng used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OHP,  10.00 V ±0.1 V  10.00 V ±0.1 V	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent p	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 10 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V to 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110 urns the output of 0.5 A to 3.5 A 10 % to 110 urns the output of 0.5 A to 3.5 A 10 % to 110 urns the output of 0.5 A to 3.5 A 10 % to 110 urns the output of 0.5 A to 3.5 A 10 % to 110 urns the output of 0.5 A to 3.5 A to	ng used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OHP,  10.00 V ±0.1 V  10.00 V ±0.1 V  0.00 V ±0.1 V	and lights ALAR 11 V to 121.0 V  tput voltage  and lights ALAR 0.060 A to 0.660 A  utput current  and lights ALAR	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Conti	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 10 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 5.3 A 10 wrns the output of 5.3 A 1	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 V to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14 Status signal	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 10 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110 urns the output of 0.5 Turns the 0.5 Turns th	ong used, the PRE  off, displays OVP,  7 V to  77.00 V  % of the rated ou  ± (1 % of rating)  off, displays OCP,  0.100 A to  1.100 A  % of the rated ou  ± (1 % of rating)  off, displays OCP,  1.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp  on during CV ope	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS CV STATUS CC STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 10 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 5 Turns the output of 5 Turns Turns Turns	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp  on during CV ope  on during CC ope	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR ut is on eration eration	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Wonitor Signal output 13, *14  Status signal output	rotection (OVP)  rotection (OCP)  ection (OHP)  rot - Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS  CV STATUS  ALM STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 0 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 0.3 A to 3.3 A 10 % to 110 urns the output of 0.3 Turns the output of 0.3 A to 3.3 A 10 % to 110 urns the output of 0.3 A to 3.3	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  10.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp  on during CC open an alarm has b	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR ut is on eration eration een activated	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	rotection (OVP)  rotection (OCP)  ection (OHP) rol • Signal output Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS CV STATUS CC STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 0 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me T 3.5 V to 38.5 V T 0.1 A to 1.1 A	urns the output of 3.5 V to 38.5 V to 38.5 V to 10 % to 110 urns the output of 0.3 A to 3.3 A to 3.3 A to 10 % to 110 urns the output of 0.3 A to 3.3 Turns the output of 10 Turns the output of 10 Turns Turns on when Turns on when 10 Turns on wh	ing used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp on during CV opo on during CC opo en an alarm has b when the power is	and lights ALAR  11 V to 121.0 V  Itput voltage  and lights ALAR  0.060 A to 0.660 A  Itput current  and lights ALAR  and lights ALAR  and lights ALAR  erration  erration  een activated turned on	M 25 V to 275.0 V M 0.025 A to 0.275 A	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	ections  rotection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS CV STATUS CS STATUS ALM STATUS PWR ON STATU  EXT-V CV CONT	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation  At rated voltage output At 0 V output At 0 A output S	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me	urns the output of 3.5 V to 38.5 V to 38.5 V to 10 % to 110 urns the output of 0.3 A to 3.3 A to 3.3 A to 10 % to 110 urns the output of 0.3 A to 3.3 Turns the output of 10 Turns the output of 10 Turns Turns on when Turns on when 10 Turns on wh	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  10.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp  on during CC open an alarm has b	and lights ALAR  11 V to 121.0 V  Itput voltage  and lights ALAR  0.060 A to 0.660 A  Itput current  and lights ALAR  and lights ALAR  and lights ALAR  erration  erration  een activated turned on	M 25 V to 275.0 V M 0.025 A to 0.275 A M M V to 10 V.	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	rotection (OVP)  rotection (OCP)  ection (OHP)  rot - Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS  CV STATUS  ALM STATUS  PWR ON STATUS	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation  At rated voltage output At 0 V output At 0 A output At 0 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to 1.1 A  T  0 % to 1	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 5.3 A 10 wrns the output of 5.3	ing used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating) iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating) iff, displays OCP,  0.100 V to 1.100 V ±0.1 V 0.00 V ±0.1 V 0.00 V ±0.1 V 0.00 V ±0.1 V on when the outp on during CV ope on during CC op in an alarm has be when the power is displays OVP.	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR ut is on praction een activated to turned on the range of 0 N	ED lights in gree  M  25 V to 275.0 V  M  0.025 A to 0.275 A  M  / to 10 V. 1 % of rating	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	rotection (OVP)  rotection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS  CV STATUS  ALM STATUS  PWR ON STATUS  EXT-V CV CONT  (CV external voltage  EXT-R CV CONT	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 0 A output At 0 A output Setting range Operation	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to 1.1 A  T  0 % to 1	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 5.3 A 10 wrns the output of 5.3	ing used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp on during CV opo on during CC opo en an alarm has b when the power is	and lights ALAR 11 V to 121.0 V Intput voltage and lights ALAR 0.060 A to 0.660 A Intput current and lights ALAR ut is on praction een activated to turned on the range of 0 N	M 25 V to 275.0 V  M 0.025 A to 0.275 A  M 1/ to 10 V. 1 % of rating to 10 kΩ.	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 13, *14  Status signal output	ections  rotection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS CV STATUS CC STATUS ALM STATUS PWR ON STATU  EXT-V CV CONT (CV external voltage	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation At rated voltage output At 0 V output At 0 A output At 0 A output Setting range Operation	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	7 A solution of the state of th	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 10 % to 110 urns the output of 10 % to 110 urns the output of 10 % of the rated 10 % of	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  10.00 V ±0.1 V  10	and lights ALAR  11 V to 121.0 V  Intput voltage  and lights ALAR  0.060 A to 0.660 A  Intput current  and lights ALAR  ut is on eration eration een activated is turned on the range of 0 N  the range of 0 Ω	M 25 V to 275.0 V M 0.025 A to 0.275 A M M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output 113, *14 Status signal output 114, *15	rotection (OVP)  rotection (OCP)  ection (OHP)  rot - Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS  CC STATUS  ALM STATUS  PWR ON STATU  EXT-V CV CONT (CV external voltage  EXT-V CC CONT	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation  At rated voltage output At 0 V output At 10 A output S S Control) Accuracy	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V  0.5 A to 5.5 A	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to 1.1 A  T  0 % to 10  ng +10 mV 0 % to 10  ng +10 mV 0 % to 10	urns the output of 3.5 V to 38.5 V 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 3.3 A 10 % to 110 urns the output of 10 % to 110 urns the output of 10 % to 110 urns the output of 10 % of the rated 10 % of	ing used, the PRE  iff, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating) iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating) iff, displays OCP,  0.100 V to 1.100 V ±0.1 V 0.00 V ±0.1 V 0.00 V ±0.1 V 0.00 V ±0.1 V on when the outp on during CV ope on during CC op in an alarm has be when the power is displays OVP.	and lights ALAR  11 V to 121.0 V  Intput voltage  and lights ALAR  0.060 A to 0.660 A  Intput current  and lights ALAR  ut is on eration eration een activated is turned on the range of 0 N  the range of 0 Ω	M 25 V to 275.0 V  M 0.025 A to 0.275 A  M 1 % of rating to 10 kΩ. 1 % of rating /to 10 V.	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent protesternal Cont Monitor Signal output 113, *14  Status signal output 144, *15	ctions  protection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  Current monitor (IMON)  OUTON STATUS  CV STATUS  CV STATUS  EXT-V CV CONT (CV external voltage  EXT-R CV CONT (CV external resistan	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Operation  At rated voltage output At 0 V output At 10 A output At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output  At 0 A output	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V	/hen a preset me  T  3.5 V to 38.5 V  T  0.1 A to 1.1 A  T  0% to 1  ng +10 mV 0% to 10  ng +10 mV 0% to 10  ng +5 mV	urns the output of 3.5 V to 3.6 V to 100 urns the output of 3.3 A to 4.0 % to 110 urns the output of 5.0 Urns the output of 5.0 Urns the output of 5.0 Urns on whe 5.0 Urns on whe 5.0 Urns on whe 6.0 Urns on whe 6.0 Urns on whe 7.0	Ing used, the PRE  Iff, displays OVP,  7 V to 77.00 V  % of the rated out ± (1 % of rating)  Iff, displays OCP,  0.100 A to 1.100 A  % of the rated out ± (1 % of rating)  Iff, displays OCP,  0.100 A to 1.100 A  % of the rated out ± (1 % of rating)  Iff, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp on during CV ope on during CV ope on an alarm has be when the power is Iff output voltage in  output voltage in  output voltage in Iff output current in	and lights ALAR  11 V to 121.0 V  Itput voltage  and lights ALAR  0.060 A to 0.660 A  Itput current  and lights ALAR  ut is on eration een activated turned on the range of 0 V  the range of 0 V	M 25 V to 275.0 V  M 0.025 A to 0.275 A  M 1 v of rating to 10 kΩ 1 % of rating to 10 v of rating t	35 V to 385.0 V	50 V to 550.0 V	
Overvoltage p Overcurrent protesternal Cont Wonitor Signal output 13, *14 Status signal output 14, *15	ections  rotection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  OUTON STATUS CV STATUS CC STATUS ALM STATUS PWR ON STATU  EXT-V CV CONT (CV external voltage  EXT-R CV CONT (CV external voltage  EXT-R CV CONT (CV external voltage  EXT-R CV CONT (CV external voltage	Operation Setting range Setting accuracy Operation *12 Setting range Setting range Setting range Operation  At rated voltage output At 0 V output At 0 A output At 0 A output S S Control) Accuracy Cec control) Accuracy	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V  0.5 A to 5.5 A  1 % of ratii 1 % of ratii	## O % to 1	urns the output of 3.5 V to 3.6 V to 100 urns the output of 3.3 A to 4.0 % to 110 urns the output of 5.0 Urns the output of 5.0 Urns the output of 5.0 Urns on whe 5.0 Urns on whe 5.0 Urns on whe 6.0 Urns on whe 6.0 Urns on whe 7.0	ong used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  off, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  off, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  10.00 V ±0.1 V  10	and lights ALAR  11 V to 121.0 V  Itput voltage  and lights ALAR  0.060 A to 0.660 A  Itput current  and lights ALAR  ut is on eration een activated turned on the range of 0 V  the range of 0 V	M 25 V to 275.0 V  M 0.025 A to 0.275 A  M 1 to 10 V. 1 % of rating to 10 kΩ. 1 % of rating to 10 kΩ. 1 % of rating to 10 kΩ.	35 V to 385.0 V	50 V to 550.0 V	
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Overvoltage p Overcurrent pi Overheat prote External Cont Monitor signal output *13, *14  Status signal output *14, *15	rotection (OVP)  rotection (OVP)  ection (OHP)  rol • Signal output  Voltage monitor (VMON)  CUrrent monitor (IMON)  OUTON STATUS  CV STATUS  ALM STATUS  EXT-V CV CONT (CV external voltage  EXT-R CV CONT (CV external voltage  EXT-R CC CONT (CV external voltage  EXT-R CC CONT (CV external voltage  EXT-R CC CONT (CV external voltage)	Operation  Setting range Setting accuracy Operation *12 Setting range Setting range Operation  At rated voltage output At 0 V output At 10 A output At 0 A output  At 0 A output  At 0 A output  At 0 A output  Accuracy Ce control) Accuracy Ce control) Accuracy Ce control) Accuracy	19.8 V 0.2 A to 2.2 A	1.8 V to 19.8 V  0.5 A to 5.5 A  1 % of ratii 1 % of ratii	## O % to 1	urns the output of 3.5 V to 3.6 V to 100 urns the output of 3.3 A to 4.0 % to 110 urns the output of 5.0 W to 100 urns the output of 5.0 W to 100 urns the output of 5.0 W to 100 w to	ng used, the PRE  off, displays OVP,  7 V to 77.00 V  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OCP,  0.100 A to 1.100 A  % of the rated ou ± (1 % of rating)  iff, displays OHP,  10.00 V ±0.1 V  0.00 V ±0.1 V  0.00 V ±0.1 V  on when the outp on during CV ope on during CV ope on an alarm has be when the power is displays OHP,  output voltage in  output voltage in  displays OHP,	and lights ALAR  11 V to 121.0 V  Intuitive transport of 0 to 121.0 V  Interval of 0 to 121.0	M 25 V to 275.0 V  M 0.025 A to 0.275 A  M 1 to 10 V. 1 % of rating to 10 kΩ. 1 % of rating to 10 kΩ. 1 % of rating to 10 kΩ.	35 V to 385.0 V	50 V to 550.0 V	
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### Specifications

Model		PMX18-2A	PMX18-5A	PMX35-1A	PMX35-3A	PMX70-1A	PMX110-0.6A	PMX250-0.25A	PMX350-0.2A	PMX500-0.1A	
Interface											
Common	Software protocol	IEEE Std 488.2-1992									
specifications	Command language	Complies with SCPI Specification 1999.0									
Hardware RS232C		Complies with the EIA232D specifications D-SUB9 pin connector (male) *17 Baud rate: 19200 bps fixed, Data length: 8 bits, Stop bits: 1 bit, Parity bit: None, No flow control.									
1102020	Program message terminator	LF during reception, LF during transmission									
	Hardware		Complies with the USB 2.0 specifications. Baud rate:12 Mbps (full speed). Standard Type B socket								
USB	Program message terminator			LF o	r EOM during re	ception, LF + EO	M during transm	ssion			
	Device class			Compli	es with the USB	TMC-USB488 de	evice class speci	fications			
	Hardware		IEEE 802.3	3 100Base-TX /	10Base-T Etherr	net Complies with	LXI Device Cor	e Specification 20	11 Rev 1.4		
	Hardware				IPv4	I, RJ-45 connect	or *18				
LAN	Communication protocol				VXI-1	1, HiSLIP, or SCF	PI-RAW				
	Program message terminator	VXI-11 and HiSLIP: LF or END during reception, LF + END during transmission SCPI-RAW: LF during reception, LF during transmission									
General speci	fications										
Weight (main unit only)		Approximately 5 kg (11.02 lbs)	Approximately 6 kg (13.23 lbs)					Approximately 6 kg (13.23 lbs)	Approximately 6 kg (13.23 lbs)	Approximately 6 kg (13.23 lbs	
Dimensions (mm(inch))(maximum dimensions)		107 (4.21") W×124 (4.88")(150 (5.91")) H×315 (12.40")(355 (13.98")) Dmm									
	Operating environment	Indoor use, overvoltage category II									
Environmental	Operating temperature / Operating humidity	0 °C to +40 °C / 20 %rh to 85 %rh (no condensation) (32 °F to +104 °F)									
conditions	Storage temperature / Storage humidity		-25 °C to +70 °C / 90 %rh or less (no condensation) (-13 °F to +158 °F)								
	Altitude	Up to 2000 m									
Cooling metho	od	Forced air cooling using fan									
Grounding pol	arity	Negative grounding or positive grounding possible									
Isolation voltage		±70 Vdc ±550 Vdc									
	Between input and FG	No abnormalities at 1500 Vac for 1 minute									
Withstand voltage	Between input and output	No abnormalities at 2100 Vac for 1 minute									
voltage	Between output and FG		bnormalities at 1	1600 Vac for 1 m	inute		No abnorma	alities at 2000 Vac	for 1 minute		
Landa Carta	Between input and FG										
Insulation resistance	Between input and output	500 Vdc, 30 MΩ or more 1000 Vdc, 30 MΩ or more									
100/010/100	Between output and FG										
Safety *19		Complies with the requirements of the following directive and standard. Low Voltage Directive 2014/35/EU EN 61010-1 (Class					1 (Class I *20, Po	Ilution degree 2			
Electromagnetic compatibility *19		Complies with the requirements of the following directive and standards.  EMC Directive 2014/30/EU  EN 61326-1 (Class A *21), EN 55011 (Class A *21, Group 1 *22), EN 61000-3-2, EN 61000-3-3  Applicable under the following conditions  The maximum length of all cabling and wiring connected to the PMX-A must be less than 3 m.									
Accessories		Power cord: 1 pc (Approximately 2.5 m). Packing list: 1 copy. Quick reference: Japanese:1 copy, English: 1 copy, Chinese: 1 copy. Safety precautions: 1 copy. CD-ROM: 1 disc.									

Unless specified otherwise, the specifications are for the following settings and conditions

- · Loads are pure resistive loads.
- The warm-up time is 30 minutes (with current flowing).
- Negative output is connected to the chassis terminal using the short bar.

   Values indicated by "TYP" are typical values. They are not guaranteed performance values.
- Values indicated by "rating" are rated values.
- Values indicated by "setting" are setting values.
  Values indicated by "reading" are readout values.
- Rated load and no load are defined as follows:
- In constant-voltage mode (when the output current is set to a value greater than or equal to the maximum output current with rated output voltage)

Rated load: Refers to a resistive load that, when the rated output voltage is applied,

makes the flowing current 95 % to 100 % of the maximum output current with rated output voltage No load: Refers to a load through which no output current flows. In other words,

refers to an open load (no load being connected).

In constant-current mode (when the output voltage is set to a value greater than or equal to the maximum output voltage with rated output current)

Rated load: Refers to a resistive load that, when the rated output current flows, makes the voltage drop to 95 % to 100 % of the maximum output voltage with rated output current.

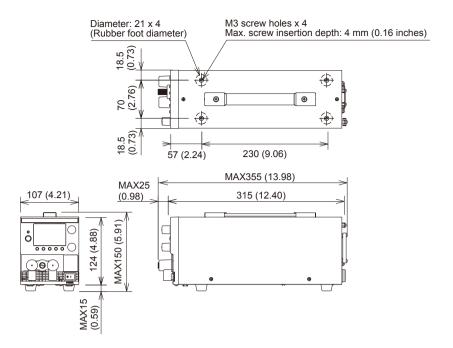
Including the voltage drop in the load cables, the PMX-A output voltage must not exceed the maximum output voltage with rated output current.

No load: Refers to a resistive load that, when the rated output current flows, makes the voltage drop to 10 % of the maximum output voltage with rated output current or 1 V whichever is higher.

- 117 Vac, 200 Vac, 217 Vac and 234 Vac are factory options.
- Excludes the charge current component that flows through the capacitor of the internal EMC filter circuit immediately after the POWER switch is turned on (for approximately 1 ms).
- With the rated load.
- When the output is on, hold down SHIFT and turn the VOLTAGE or CURRENT knob to change the value at 1/10th the resolution of the minimum digit.
  - When the output is off, hold down SHIFT and turn the VOLTAGE or CURRENT knob to change the value at increments of 1 in the minimum digit.
  - If you are setting the value through the communication interface, you can set the value at 1/10th the resolution of the minimum digit, regardless of whether the output is on. 100 Vac to 90 Vac or 100 Vac to 110 Vac, rated load.
- The amount of change that occurs when the load is changed from no load to rated load with rated output voltage. The value is measured at the sensing point.

  The amount of time required for the output voltage to return to a value within "rated output
- $voltage \pm (0.05~\% + 10~mV)." \label{eq:voltage} \begin{tabular}{ll} \begin{tabular}{$ current
- When the measurement frequency bandwidth is 5 Hz to 1 MHz.
- The time it takes for the output voltage to rise from 10 % to 90 % of the rating when the output is turned on.
- The time it takes for the output voltage to fall from 90 % to 10 % of the rating when the output is turned off.
- Ambient temperature at 23 °C +5 °C.
- This does not protect against the discharge current peak that is generated from the capacitors inside the PMX-A output section when the load is changed suddenly.
- When remote sensing is used, connect the monitor signal's common line to the negative S terminal of the sensing terminal. When remote sensing is not used, connect it to the negative output terminal
- \*14. J1 connector on the rear panel.
- \*15. Photocoupler open collector output;
  - maximum voltage 30 V, maximum current (sink) 8 mA; isolated from the output and control circuits; status commons are floating (isolation voltage or less); and status signals are not mutually isolated.
- \*16. J1 connector on the rear panel
- \*17. Use a cross cable (null modem cable).
- Category 5; use a straight cable
- \*19. Limited to products that have the CE mark on their panels. Does not apply to specially ordered or modified PMX-As.
- \*20. This is a Class I equipment. Be sure to ground this product's protective conductor terminal. The safety of this product is only guaranteed when the product is properly grounded.
- \*21. This is a Class A equipment. This product is intended for use in an industrial environment. This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.
- \*22. This is a Group 1 equipment. This product does not generate and/or use intentionally radio-frequency energy, in the from of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose.

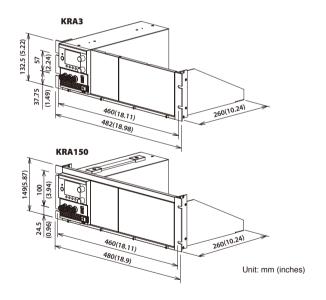
### **Dimensions**



### **Option**

Name	Model	Note		
	KRA3	For EIA inch racks		
Rack mount adapter	KRA150	For JIS millimeter racks		
	KBP3-2 (1/2 width)	For both EIA inch racks		
Plank panal	KBP3-4(1/4 width)	and JIS millimeter racks		
Blank panel	BP191(-M) *1	For EIA inch racks		
	BP1H(-M) *1	For JIS millimeter racks		

<sup>\*1</sup> The "-M" at the end of the model name indicates a mesh type.



Name	Model	Note
Connector kit	OP01-PMX	A connector kit for connecting to the J1 connector to externally control the PMX.
Terminal unit (for use with the PMC-A series)	TU01-PMX	A terminal unit for converting the J1 connector of this product to the J2 connector of the Kikusui PMC-A Series Regulated DC Power Supply.

### **& KIKUSUI**

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