## Specifications

Model AC input		PMX18-2A	PMX18-5A	PMX35-1A	PMX35-3A	PMX70-1A	PMX110-0.6A	PMX250-0.25A	PMX350-0.2A	PMX500-0.1A						
Nominal input rating			100 Vac *1, 50 Hz / 60 Hz, single phase													
Input voltage range Input frequency range							± 10 % 47 Hz to 63 Hz									
Inrush current			50 Amax or less	60 Amax or less	45 Amax or less	60 Amax or less	1	55 Amax or less	40 Amax or less	55 Amax or less	40 Amax or less					
Power (MAX)	Power (MAX) *3		150 VA	310 VA	150 VA	310 VA	230 VA	210 VA	210 VA	230 VA	170 VA					
Output			18.00 V	(0.00)/	0.5.00.14				0.00.0.1/	0.50.01/						
Rating	Output voltage Output current	Output voltage		18.00 V 5.000 A	35.00 V 1.000 A	35.00 V 3.000 A	70.00 V 1.000 A	110.0 V 0.600 A	250.0 V 0.250 A	350.0 V 0.200A	500.0 V 0.100 A					
rtating	Output power		2.000 A 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 V					
	Setting resolution *4			11	mV		2 mV		10	ImV						
	Setting accuracy		14 m2/	14	12	1	of setting +0.1 %		145	· 25 - m) (	120					
	Line regulation *5		±1 mV ±2 mV	±1 mV ±5 mV	±3 mV ±3 mV	±3 mV ±4 mV	±5 mV ±5 mV	±7 mV ±7 mV	±15 mV ±15 mV	±25 mV ±25 mV	±30 mV ±30 mV					
	Transient response *7			1	μs		20	2	100 µs	120	200					
Voltage	Ripple noise (rms) *8		0.5 mV				1 mV	2 mV	3 mV	5 mV	10 mV					
	Rise time *9	Rated load	120 ms or less				150 ms or less	120 ms or less	120 ms or less	150 ms or less	120 ms or less					
		No load			or less		150 ms or less 50 ms or less	120 ms or less	120 ms or less	150 ms or less	120 ms or less					
	Fall time *10	Rated load No load	270 ms or less	1	or less 270 ms or less	270 ms or less	270 ms or less	50 ms or less 120 ms or less	50 ms or less 120 ms or less	80 ms or less 220 ms or less	50 ms or less 60 ms or less					
	Maximum remote		270 113 01 1033			210 110 01 1000	270 113 01 1033	120 110 01 1000	120 110 01 1000	220 110 01 1000	00 110 01 1000					
	compensation vo			0.0	6 V				—							
	Temperature coefficient (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 A					
	Setting resolution	Setting resolution *4		0.1 mA ± (0.3 % of setting +0.1 % of rating)												
Current	Line regulation			±5	mA	1 (0.0 %)	±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		1 mA	2 mA	1 mA	1 mA			1 mA							
	Temperature coe	fficient (TYP)					200 ppm /°C									
Display functio	Maximum displa	/		99.9	9 (fixed decimal	point)		1	999 9 (fixed (	decimal point)						
Voltage display	Display accuracy			00.0			% of reading +2	digits)	000.0 (iixed (							
Current	Maximum displa						9 (fixed decimal									
display	Display accuracy						% of reading +5	÷ .								
	OUTPUT ON / O	FF			Output on: 0	OUTPUT LED ligh			ED turns off.							
	CV operation CC operation		CV LED lights in green. CC LED lights in red.													
	Alarm operation				ALARM LE	ED lights in red wi	÷		n activated.							
Operation	Remote operation					REMOTE LED lig										
display		LAN operation	LAN LED lights or blinks depending on the LAN communication status.													
			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. When a preset memory entry is being used, the PRESET A, B, or C LED lights in green.													
Protection fun	Preset memory			V	hen a preset me	emory entry is bein	ng used, the PR	ESET A, B, or C	LED lights in gree	en.						
riolection fun	10110110	Operation			1	urns the output o	ff, displays OVP	, and lights ALAF	M							
		Catting	1.8 V to	1.8 V to	3.5 V to	3.5 V to	7 V to	11 V to	25 V to	35 V to	50 V to					
Overvoltage p	protection (OVP)	Setting range	19.8 V	19.8 V	38.5 V	38.5 V	77.00 V	121.0 V	275.0 V	385.0 V	550.0 V					
		0				10 % to 110	% of the rated o ± (1 % of rating)									
		Setting accuracy Operation *12				urns the output o	(		M							
			0.2 A to	0.5 A to	0.1 A to	0.3 A to	0.100 A to	0.060 A to	0.025 A to	0.020 A to	0.010 A to					
Overcurrent protection (OCP)		Setting range	2.2 A	5.5 A	1.1 A	3.3 A	1.100 A	0.660 A	0.275 A	0.220 A	0.110 A					
							% of the rated o									
		Setting range	± (1 % of rating) Turns the output off, displays OHP, and lights ALARM													
	tection (OHP) trol • Signal output	Operation			I	urns the output o	ff, displays OHP	, and lights ALAF	M							
	Voltage monitor	At rated voltage output					10.00 V ±0.1 V									
Monitor signal output	(VMON)	At 0 V output	0.00 V ±0.1 V													
*13, *14	Current monitor	At rated current output	10.00 V ±0.1 V													
	(IMON) At 0 A output			0.00 V ±0.1 V												
	OUTON STATUS		Turns on when the output is on													
Status signal output	CV STATUS CC STATUS		Turns on during CV operation Turns on during CC operation													
*14, *15	ALM STATUS		Turns on when an alarm has been activated													
	PWR ON STATUS		Turns on when the power is turned on													
	EXT-V CV CONT		0 % to 100 % of the rated output voltage in the range of 0 V to 10 V.													
	(CV external voltage control) Accuracy		1 % of rating         +10 mV         1 % of rating           0 % to 100 % of the rated output voltage in the range of 0 Ω to 10 kΩ.         10 kΩ.													
	EXT-R CV CONT (CV external resistance control) Accuracy		1 % of rating +10 mV 1 % of rating													
	(CV external resistan	· · · · · · · · · · · · · · · · · · ·		0 % to 100 % of the rated output current in the range of 0 V to 10 V.												
<b>F</b> (		Accuracy		1 % of rating +5 mV 1 % of rating												
	(CV external resistan EXT-V CC CONT (CV external voltage			1 % of rati	ng +5 mV			0 % to 100 % of the rated output current in the range of 0 $\Omega$ to 10 k $\Omega$ .								
control	EXT-V CC CONT (CV external voltage EXT-R CC CONT	control) Accuracy			0 % to 1	00 % of the rated	output current ir	the range of 0 Ω	to 10 kΩ.							
External control *16	EXT-V CC CONT (CV external voltage	control) Accuracy		1 % of ration	0 % to 1	00 % of the rated	output current ir	i the range of 0 Ω	-							
control	EXT-V CC CONT (CV external voltage EXT-R CC CONT	control) Accuracy		1 % of rational technology 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1	0 % to 10 ng +5 mV	Pos	sible logic select	tions:	to 10 kΩ. 1 % of rating	510	- 11					
control	EXT-V CC CONT (CV external voltage EXT-R CC CONT (CV external resistan	control) Accuracy ce control) Accuracy F CONT	Tu	1 % of ration	0 % to 1 ng +5 mV using a LOW (0 V	Pose / to 0.5 V) or shor	sible logic select	tions:	to 10 kΩ. 1 % of rating a HIGH (4.5 V to							
control *16	EXT-V CC CONT (CV external voltage EXT-R CC CONT (CV external resistan OUTPUT ON/OF (Output on/off cc	control) Accuracy ce control) Accuracy F CONT	Tu	1 % of ration	0 % to 1 ng +5 mV using a LOW (0 V	Pos	sible logic select	tions:	to 10 kΩ. 1 % of rating a HIGH (4.5 V to							
control *16 Other features	EXT-V CC CONT (CV external voltage EXT-R CC CONT (CV external resistan OUTPUT ON/OF (Output on/off co	control) Accuracy ce control) Accuracy F CONT	Tu	1 % of ration	0 % to 1 ng +5 mV using a LOW (0 V using a HIGH (4.	Pos: / to 0.5 V) or shor 5 V to 5 V) or ope	sible logic select t-circuit, turn the en-circuit, turn th	tions: e output off using e output off using	to 10 kΩ. 1 % of rating a HIGH (4.5 V to a LOW (0 V to 0							
control *16	EXT-V CC CONT (CV external voltage EXT-R CC CONT (CV external resistan OUTPUT ON/OF (Output on/off co	control) Accuracy ce control) Accuracy F CONT	Tui Tu	1 % of rational for the output on up the output of up the output on up the	0 % to 1 ng +5 mV using a LOW (0 V using a HIGH (4. Save up	Pose / to 0.5 V) or shor	sible logic select t-circuit, turn the en-circuit, turn th ns of the voltage	tions: e output off using e output off using and current setti	to 10 kΩ. 1 % of rating a HIGH (4.5 V to a LOW (0 V to C ng value.	).5 V) or shortcire	cuit.					

## 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									
RS232C	Hardware	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.									
	Program message terminator	LF during reception, LF during transmission									
USB	Hardware	Complies with the USB 2.0 specifications. Baud rate:12 Mbps (full speed). Standard Type B socket									
	Program message terminator	LF or EOM during reception, LF + EOM during transmission									
	Device class	Complies with the USBTMC-USB488 device class specifications									
	Hardware	IEEE 802.3 100Base-TX / 10Base-T Ethernet Complies with LXI Device Core Specification 2011 Rev 1.4 IPv4, RJ-45 connector *18									
LAN	Communication protocol				VXI-11	I, HiSLIP, or SCI	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 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)	Approximately 6 kg (13.23 lbs)	Approximately 6 kg (13.23 lbs)	
Dimensions (n	nm(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											
conditions	Storage temperature / Storage humidity										
	Altitude	Up to 2000 m									
Cooling metho		Forced air cooling using fan									
Grounding pol Isolation volta		Negative grounding or positive grounding possible           ±70 Vdc         ±550 Vdc									
	Between input and FG		±70	Vuc							
Withstand	Between input and output	No abnormalities at 1500 Vac for 1 minute No abnormalities at 2100 Vac for 1 minute									
voltage	Between output and FG	No abnormalities at 1600 Vac for 1 minute				No abnormalities at 2000 Vac for 1 minute					
	Between input and FG	110 0	ionormanico at		indic						
Insulation resistance	Between input and output	500 Vdc, 30 MΩ or more				1000 Vdc, 30 MΩ or more					
	Between output and FG	300 V00, 30 M22 01 more									
Safety *19	· · ·	Complies with the requirements of the following directive and standard. Low Voltage Directive 2014/35/EU EN 61010-1 (Class I *20, Pollution 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.									
Loads are pure     The warm-up ti     Negative output	I otherwise, the specifications are for the resistive loads. ime is 30 minutes (with current flowing). it is connected to the chassis terminal u dhw "TVP" are tunical values. They are	sing the short bar.			*2. Exclude circuit in *3. With the	es the charge cur mmediately after t e rated load.		at flows through this turned on (for app	proximately 1 ms).	internal EMC filter	

- 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.

- When the output is on, hold down SHIFT and turn the VOLTAGE or CURRENT knob to change the \*4. 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 \*6.
- 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 \*7 voltage±(0.05 % + 10 mV)." When the load current is changed from 10 % to 100 % of the rated output current
- When the measurement frequency bandwidth is 5 Hz to 1 MHz.
- \*9. The time it takes for the output voltage to rise from 10 % to 90 % of the rating when the output is turned on.
- \*10. The time it takes for the output voltage to fall from 90 % to 10 % of the rating when the output is turned off.
- \*11 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.
- \*13. 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).
- \*18. 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.