

Based on the popular "Dropper × Interface" design, these compact, low-noise power supplies feature standard communications control!

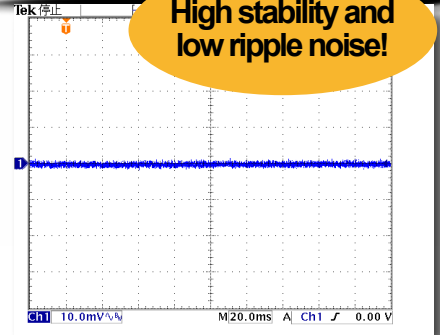
Compact DC Stabilized Power Supplies PMX-E SERIES

The PMX-E Series compact, high-performance DC power supplies provide constant voltage (CV) and constant current (CC) operation. This series provides the low-noise performance distinctive to the series-dropper method and comes with the communication interfaces essential for system integration: LAN, USB, and RS-232C. LAN communication enables control and monitoring using web browsers on PCs, smartphones, and tablets. The PMX-E Series also has analog external control and output monitoring, multiple protection functions, a memory function, and other features, ensuring high versatility. Ergonomically designed for benchtop use, all models come with front-facing output terminals that improve work efficiency and allow users to easily connect load harnesses. The 18 V and 35 V models are equipped with remote sensing to reduce voltage drop caused by the resistance of the load wiring.

NEW



▲ Rear panel



High stability and low ripple noise!

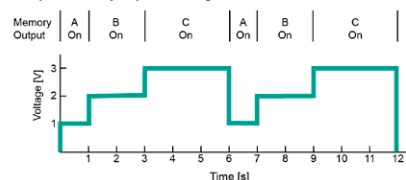
▲ Ripple waveform (PMX18 5E)
Measurement conditions: Resistive load; oscilloscope bandwidth set to 20 MHz.

Point 1

Built-in memory sequencing

Now you can combine up to three waveforms without the PC!

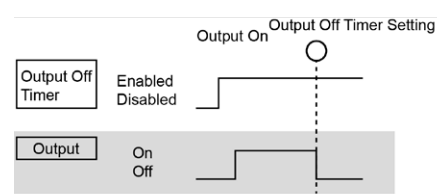
Example of memory sequence settings



Point 2

Output off timer function

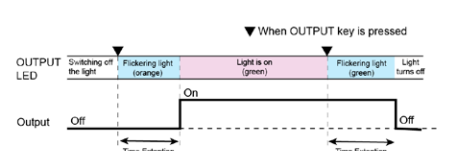
Output can be turned off by upper/lower voltage, upper/lower current, or time settings.



Point 3

Output on/off delay function

Set a delay between pressing the OUTPUT key and when the output turns on or off. This function is an excellent choice for timing control based on the load's characteristics.



Level up from PMX-A! Enhanced features make the new series even more convenient!

● **Key features:** Equipped with output off timer and a bleeder circuit selection functions. Watchdog and external control (Ext Ctrl) functions detect malfunctions.

● **Improved usability:** Thanks to the memory sequence function up to three memory presets can be output consecutively.

Lineup

Specifications	Output		Ripple noise		Power fluctuation		Load fluctuation		Input (AC)		Weight (Approx.) kg
	CV V	CC A	CV mVrms	CC mArms	CV mV	CC mA	CV mV	CC mA	Voltage V ± 10%	Power Approx. VA	
PMX18-2E	0 ~ 18	0 ~ 2	0.5	1	± 1	± 5	± 2	± 5	100	150	5
PMX18-5E	0 ~ 18	0 ~ 5	0.5	2	± 1	± 5	± 5	± 5	100	310	6
PMX35-1E	0 ~ 35	0 ~ 1	0.5	1	± 3	± 5	± 3	± 5	100	150	5
PMX35-3E	0 ~ 35	0 ~ 3	0.5	1	± 3	± 5	± 4	± 5	100	310	6
PMX70-1E	0 ~ 70	0 ~ 1	1	1	± 5	± 2	± 5	± 5	100	230	6
PMX110-0.6E	0 ~ 110	0 ~ 0.6	2	1	± 7	± 2	± 7	± 5	100	210	6

Specifications

Model		PMX18-2E	PMX18-5E	PMX35-1E	PMX35-3E	 01189 786911 TELONIC		
AC input								
Rated input rating		100 VAC, 50 Hz / 60 Hz, single phase (117 / 200 / 217 / 234 VAC available as factory options)						
Input voltage range		± 10 %						
Input frequency range		47 Hz ~ 63 Hz						
Inrush current (MAX)		50 A	60 A	45 A	60 A	65 A	55 A	
Power (at rated load)		150 VA	310 VA	150 VA	310 VA	230 VA	210 VA	
Output								
Rated	Output voltage	18.00 V	18.00 V	35.00 V	35.00 V	70.00 V	110.0 V	
	Output current	2.000 A	5.000 A	1.000 A	3.000 A	1.000 A	0.600 A	
	Output power	36 W	90 W	35 W	105 W	70 W	66 W	
Voltage	Adjustable range	0 V ~ 18.90 V	0 V ~ 18.90 V	0 V ~ 36.75 V	0 V ~ 36.75 V	0 V ~ 73.50 V	0 V ~ 115.5 V	
	Setting resolution *1	1 mV				2 mV	10 mV	
	Setting accuracy	± (0.2 % of setting +0.1 % of rating)						
	Power supply variation *2	± 1 mV	± 1 mV	± 3 mV	± 3 mV	± 5 mV	± 7 mV	
	Load variation *3	± 2 mV	± 5 mV	± 3 mV	± 4 mV	± 5 mV	± 7 mV	
	Transient response *4	50 µs				100 µs		
	Ripple noise (rms) *5	0.5 mV (1 mV)	0.5 mV	0.5 mV (1 mV)	0.5 mV	1 mV	2 mV	
	Rise time *6	At rated load	120 ms or less				150 ms or less	120 ms or less
		At no load	120 ms or less				150 ms or less	120 ms or less
	Fall time *7	At rated load	50 ms or less				50 ms or less	50 ms or less
		At no load	120 ms or less				150 ms or less	120 ms or less
	Max. remote sensing compensation voltage		0.6 V (one-way)				—	
	Temperature coefficient (TYP)		100 ppm/°C					
	Current	Setting range	0 A ~ 2.10 A	0 A ~ 5.25 A	0 A ~ 1.05 A	0 A ~ 3.15 A	0 A ~ 1.050 A	0 A ~ 0.630 A
		Setting resolution *1	0.1 mA					
		Setting accuracy	± (0.3 % of setting +0.1 % of rating)					
Power supply variation		± 5 mA				± 2 mA	± 2 mA	
Load regulation		± 5 mA				± 5 mA	± 5 mA	
Ripple noise (rms) *5		1 mA	2 mA	1 mA	1 mA	1 mA		
Temperature coefficient (TYP)		200 ppm/°C						

1. It's possible to set a value equal to one-tenth of the smallest digit by using the SHIFT key in combination with the knob, or via communication command.
2. 100 VAC ~ 90 VAC, or 100 VAC ~ 110 VAC, at rated load.
3. 0% to 100% of the output voltage or output current.
4. The time required for the output voltage to return to within ± (0.05% + 10 mV) of the rated output voltage when the load current is varied between 10% and 100% of rated output current.
5. At rated load. Measurement frequency bandwidth: 10 Hz ~ 1 MHz.
6. Time required for the output voltage to rise to between 10% and 90% of the rated output after the output is turned on.
7. The time it takes for the output voltage to drop to between 90% and 10% of the rated output when the output is turned off.

Options

Product name	Connector kit	Description
Connector kit 	OP01-PMX	Plug kit for connecting to the J1 connector when using external control.
Terminal unit (PMC-A adapter) 	TU01-PMX	Terminal unit that adapts connectors used for external control of the PMC-A series can be used with the PMX-E series.



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