

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

Compact DC Stabilized Power Supplies

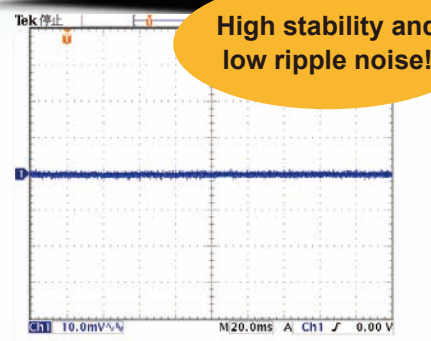
PMX-E SERIES

NEW

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. In addition, high-speed fluctuation is available as a factory option for the 18 V and 35 V models.



▲ Rear panel



High stability and low ripple noise!

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

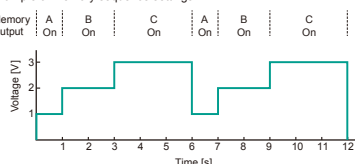
New features users have been asking for!

Point 1

Built-in memory sequencing

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

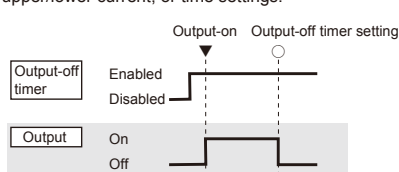
Example of memory sequence settings



Point 2

Output off timer function

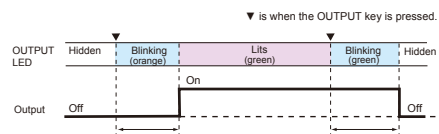
Output can be turned off by upper/lower voltage, upper/lower current, or time settings.



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!

- Soft start/stop and selectable bleeder circuit.
- Watchdog monitoring and external control for abnormality detection.
- Communication speed has been improved thanks to reduced jitter during SCPI communication control (When using the OUTPUT command: approx. 100 ms for PMX-A → approx. 2 ms for PMX-E; reference values).
- Equipped with a power-limiting function
- Optional factory upgrade for faster rise/fall times (from ≤120 ms to ≤20 ms).*

*PMX18-2E and PMX35-1E only.

Lineup

Specifications	Output		Ripple noise		Power fluctuation		Load variation		Input (AC)		Weight (Approx.) kg(lbs)
	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 to 18	0 to 2	0.5	1	±1	±5	±2	±5	100	150	5 (11.02)
PMX18-5E	0 to 18	0 to 5	0.5	2	±1	±5	±5	±5	100	310	6 (13.23)
PMX35-1E	0 to 35	0 to 1	0.5	1	±3	±5	±3	±5	100	150	5 (11.02)
PMX35-3E	0 to 35	0 to 3	0.5	1	±3	±5	±4	±5	100	310	6 (13.23)
PMX70-1E	0 to 70	0 to 1	1	1	±5	±2	±5	±5	100	230	6 (13.23)
PMX110-0.6E	0 to 110	0 to 0.6	2	1	±7	±2	±7	±5	100	210	6 (13.23)
PMX250-0.25E	0 to 250	0 to 0.25	3	1	±15	±1	±15	±5	100	210	6 (13.23)
PMX350-0.2E	0 to 350	0 to 0.2	5	1	±25	±1	±25	±5	100	230	6 (13.23)
PMX500-0.1E	0 to 500	0 to 0.1	10	1	±30	±1	±30	±3	100	170	6 (13.23)

Specifications

Model		PMX18-2E	PMX18-5E	PMX35-1E	PMX35-3E	PMX70-1E	PMX110-0.6E	PMX250-0.25E	PMX350-0.2E	PMX500-0.1E	
AC input											
Nominal input rating		100 Vac (117 Vac, 200 Vac, 217 Vac, and 234 Vac are factory options), 50 Hz/60 Hz, single phase									
Input voltage range		± 10 %									
Input frequency range		47 Hz to 63 Hz									
Inrush current (MAX)		50 A	60 A	45 A	60 A	65 A	55 A	40 A	55 A	40 A	
Power (MAX) (At rated load)		150 VA	310 VA	150 VA	310 VA	230 VA	210 VA	210 VA	230 VA	170 VA	
Output											
Rated	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	
	Output current	2.000 A	5.000 A	1.000 A	3.000 A	1.000 A	0.600 A	0.250 A	0.200 A	0.100 A	
	Output power	36 W	90 W	35 W	105 W	70 W	66 W	62.5 W	70 W	50 W	
Voltage	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 73.50 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 *1	1 mV				2 mV	10 mV				
	Setting accuracy	±(0.2 % of setting +0.1 % of rating)									
	Power fluctuation *2	±1 mV	±1 mV	±3 mV	±3 mV	±5 mV	±7 mV	±15 mV	±25 mV	±30 mV	
	Load variation *3	±2 mV	±5 mV	±3 mV	±4 mV	±5 mV	±7 mV	±15 mV	±25 mV	±30 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	3 mV	5 mV	10 mV	
	Rise time *7	Rated load	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 150 ms	≤ 120 ms	≤ 120 ms	≤ 150 ms	≤ 120 ms
		No load	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 150 ms	≤ 120 ms	≤ 120 ms	≤ 150 ms	≤ 120 ms
	Fall time *8	Rated load	≤ 50 ms (≤ 20 ms) *6	≤ 50 ms	≤ 50 ms (≤ 20 ms) *6	≤ 50 ms	≤ 50 ms	≤ 50 ms	≤ 50 ms	≤ 80 ms	≤ 50 ms
		No load	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 120 ms (≤ 20 ms) *6	≤ 120 ms	≤ 150 ms	≤ 120 ms	≤ 120 ms	≤ 150 ms	≤ 60 ms
	Maximum remote sensing compensation voltage		0.6 V (single line)				—				
Temperature coefficient (TYP)		100 ppm/°C									
Current	Setting range	0 A to 2.10 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 0.262 A	0 A to 0.210 A	0 A to 0.105 A	
	Setting resolution *1	0.1 mA									
	Setting accuracy	±(0.3 % of setting + 0.1 % of rating)									
	Power fluctuation *2	±5 mA				±2 mA	±2 mA	±1 mA	±1 mA	±1 mA	
	Load variation *3	±5 mA				±5 mA	±5 mA	±5 mA	±5 mA	±3 mA	
	Ripple noise (rms) *5	1 mA (2 mA)*6	2 mA	1 mA (2 mA)*6	1 mA	1 mA					
	Rise time *7 *9	Rated load	— (≤ 20 ms) *6	—	— (≤ 20 ms) *6	—	—				
	Fall time *8 *9	Rated load	— (≤ 20 ms) *6	—	— (≤ 20 ms) *6	—	—				
	Temperature coefficient (TYP)		200 ppm/°C								

*1. You can set a value down to 1/10 of the minimum digit by using the SHIFT key and knob together or with a communication command. *2. 100 Vac to 90 Vac or 100 Vac to 110 Vac, fixed load. *3. For 0 % to 100 % of output voltage or output current. *4. The amount of time required for the output voltage to return to a value within "rated output voltage ± (0.05 % + 10 mV)." When the load current is changed from 10 % to 100 % of the rated output current. *5. At rated load. When the measurement frequency bandwidth is 10 Hz to 1 MHz. *6. The values in parentheses apply to models equipped with the high-speed rising/falling function (factory option). *7. The time for the output voltage to rise from 10 % to 90 % of the rating when the output is turned on. *8. The time for the output voltage to fall from 90 % to 10 % of the rating when the output is turned off. *9. The current rise/fall time specifications apply only to models equipped with the high-speed rising/falling function.

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.
High-speed rising/falling function (Factory option)	—	Model equipped: PMX18-2E / PMX35-1E



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