

Regulated DC power supply, the PA-B series



PA18-1.2B



PA18-5B



PA600-0.1B

Model	Output rating	
	Voltage(V)	Current(A)
PA10-5B	0 - 10	0 - 5
PA18-1.2B	0 - 18	0 - 1.2
PA18-2B	0 - 18	0 - 2
PA18-3B	0 - 18	0 - 3
PA18-5B	0 - 18	0 - 5
PA36-1.2A	0 - 36	0 - 1.2
PA36-2A	0 - 36	0 - 2
PA36-3B	0 - 36	0 - 3
PA80-1B	0 - 80	0 - 1
PA120-0.6B	0 - 120	0 - 0.6
PA160-0.4B	0 - 160	0 - 0.4
PA250-0.25B	0 - 250	0 - 0.25
PA250-0.42B	0 - 250	0 - 0.42
PA350-0.2B	0 - 350	0 - 0.2
PA600-0.1B	0 - 600	0 - 0.1

Outline

Designed to be both compact, and to provide high performance, the PA-B series of series-regulated CV/CC power supplies have been developed to offer high reliability and stability, and to provide simultaneous digital display of both output voltage and current. The products line includes the 10V, 18V, 36V, 80V, 120V, 160V, 250V, 350V and 600V models to allow selection according to individual needs. Remote control enables easy use of these compact lightweight powers supplies in application such as R&D, aging and as systems power supplies

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Features

- **Floating output**

Because the output terminals are floating, operation is possible as either a positive or negative power supply.

- **Remote sensing (Low voltage model only)**

Output sensing terminals are provided on the front panel for precise setting if the voltage actually applied to the load terminals.

- **Low ripple, low noise**

Series regulation achieves low ripple and noise, as well as a very low temperature coefficient and excellent electrical characteristics.

Specification

Model name	PA10-5B	PA18-1.2B	PA18-2B	PA18-3B	PA18-5B	PA36-1.2B	PA36-2B	PA36-3B	
OUTPUT									
Output voltage	0 to 10V	0 to 18V				0 to 36V			
Resolution (logical value)	1.8mV	3.3mV				6.5mV			
Voltage setting dial	10 Rotary								
Output current	0 to 5A	0 to 1.2A	0 to 2A	0 to 3A	0 to 5A	0 to 1.2A	0 to 2A	0 to 3A	
Resolution (logical value)	0.9mA	0.3mA	0.4mA	0.6mA	0.9mA	0.3mA	0.4mA	0.6mA	
Current setting dial	10 Rotary								
CONSTANT VOLTAGE CHARACTERISTICS (CV)									
Input regulation	For $\pm 10\%$ variance of source voltage *1	1 mA	1 mV			2 mV			
Load regulation	For 0V to 100% variance of output current *1	5mV	2mV	2.5mV	3mV	5mV	2mV	3mV	4mV
Ripple and noise	rms (10Hz to 1MHz) *2	0.5mV							
Transient response	typ (current 10% to 100%) *3	50us typ							
Temperature	typ	100ppm/°C typ							
Rise time	Full load/No load typ	100ms/100ms							
Fall time	Full load/No load typ	50ms/1s							
Remote control	External voltage/output voltage ratio	Approx 10V/10V	Approx 10V/18V			Approx 10V/36V			
Remote control	External voltage/output voltage ratio	Approx 10kΩ /10V	Approx 10kΩ /18V			Approx 10kΩ /36V			

Model name	PA80-1B	PA120-0.6B	PA160-0.4B	PA250-0.25B	PA250-0.42B	PA350-0.2B	PA600-0.1B	
OUTPUT								
Output voltage	0 to 80V	0 to 120V	0 to 160V	0 to 250V		0 to 350V	0 to 600V	
Resolution (logical value)	14.4mV	21.6mV	28.8mV	45.0mV		63.0mV	108.0mV	
Voltage setting dial	10 Rotary							
Output current	0 to 1A	0 to 600mA	0 to 400mA	0 to 250mA	0 to 420mA	0 to 200mA	0 to 100mA	
Resolution (logical value)	180uA	108uA	72uA	45uA	76uA	36uA	18uA	
Current setting dial	10 Rotary							
CONSTANT VOLTAGE CHARACTERISTICS (CV)								
Input regulation	For $\pm 10\%$ variance of source voltage *1	5mV	7mV	8mV	15mV		20mV	30mV
Load regulation	For 0V to 100% variance of output current *1	5mV	7mV	8mV	15mV		20mV	30mV
Ripple and noise	rms (10Hz to 1MHz) *2	1mV	1.2mV	1.6mV	2.5mV		3.5mV	5mV
Transient response	typ (current 10% to 100%) *3	50us typ						
Temperature	typ	100ppm/°C typ						
Rise time	Full load/No load typ	100ms/100ms	150ms/150ms		190ms/190ms		200ms/200ms	330ms/330ms
Fall time	Full load/No load typ	50ms/1s						50ms/1.5s
Remote control	External voltage/output voltage ratio	Approx 10V/80V	Approx 10V/120V	Approx 10V/160V	Approx 10V/250V		Approx 10V/350V	Approx 10V/600V
Remote control	External voltage/output voltage ratio	Approx 10kΩ /80V	Approx 10kΩ /120V	Approx 10kΩ /160V	Approx 10kΩ /250V		Approx 10kΩ /350V	Approx 10kΩ /600V