

Kikusui PAB160-0.4

1. GENERAL

Kikusui PAB Series Regulated DC Power Supplies are compact, light, transistorized series regulator type, and provides larger current rates for its sizes. The output voltage is finely variable for a range of 0 to the rated voltage with a 10-turn potentiometer or a combination of coarse and fine adjustment potentiometers. A voltmeter and an ammeter are mounted on the front panel.

To guard against overload and shorting of the output circuit, PAB Series are incorporated with a constant-current-type current limiting circuit which operates positively. The limiting current value is continuously variable for a range of 10% ~ 100% of the rated current, and PAB Series can be used as a constant-current power supply.

Two units of the same model can be operated in parallel in a one-control mode (master-slave mode) of operation, thereby doubling the output current rating.

Up to four unit can be installed on a 19-inch standard rack, using the frame and mounting brackets which are available as options.

2. SPECIFICATIONS

Item	Model	PAB 8-5	PAB 18-3	PAB 32-2	PAB 70-1	PAB 110-0.6	PAB 160-0.4	PAB 250-0.25	PAB 350-0.2
Input power	100 V $\pm 10\%$, 50/60 Hz single-phase AC								
Apparent input power	approx. 115 VA	approx. 130 VA	approx. 140 VA	approx. 150 VA	approx. 130 VA				
Ambient temperature	0 ~ 40°C (32 ~ 104°F)								
Dimensions (maximum dimensions)	106 W x 140 H x 209 D mm (4.17 W x 5.51 H x 8.23 D in.) 111 W x 148 H x 250 D mm (4.37 W x 5.83 H x 9.84 D in.)								
Weight	approx. 3.7 kg (8.2 lb.)								
Accessories	Operation manual, shorting bar, plug for parallel operation 1 each								
Terminals	Positive (red) and negative (white) terminals, horizontal positioning								
Floating voltage	± 150 V		± 250 V		± 700 V				
Output voltage	0 ~ 8 V	0 ~ 18 V	0 ~ 32 V	0 ~ 70 V	0 ~ 110 V	0 ~ 160 V	0 ~ 250 V	0 ~ 350 V	
Continuously variable	with coarse and fine control potentiometers with 10-turn potentiometer								
Output current (maximum)	5 A	3 A	2 A	1 A	0.6 A	0.4 A	0.25 A	0.2 A	

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Item	8-5	18-3	32-2	70-1	110-0.6	160-0.4	250-0.25	350-0.2	
Ripples	500 μ V rms		1 mV rms		2 mV rms		3 mV rms		
	(5 Hz ~ 1 MHz)								
line voltage regulation	0.02% + 2 mV (Note 1)								
Load regulation	0.02% + 3 mV (Note 2)								
Limiting current	Continuously variable for a range of 10% 100% of rated current (constant-current operation)								
Voltmeter (full scale)	8 V	20 V	32 V	70 V	110 V	160 V	250 V	350 V	
Ammeter (full scale)	6 A	3.2 A	2.2 A	1.2 A	0.8 A	0.5 A	0.3 A	0.25 A	

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Note 1: Against $\pm 10\%$ change of AC line voltage

Note 2: Against 0 ~ 100% change of output current