

1. INTRODUCTION

Kikusui Electronics' Model PAC35-5 is an IC used and all-silicon-transistorized, highly reliable, variable regulated DC power supply which has excellent regulation, a low temperature coefficient and quick transient response. It is a universal type usable for either a digital or analog circuit.

The output voltage is adjustable finely and automatically over a range of zero to 35V with a 10-turn type variable resistor.

The maximum output current is 5A. Model PAC35-5 can be used as a constant current power supply over a range of 0.2 to 5A.

Use of a new circuit technique (utility model patent pending) permits the constant current characteristics to be improved largely, as compared with the other type.

Model PAC35-5 is a constant voltage-current automatic crossover type in which the constant output voltage performance and constant current performance are changed over automatically according to load variation.

Two lamps mounted on the front panel indicate the respective operation modes alternately (constant voltage or constant current).

Model PAC35-5 is not only used in single operation but in series, parallel or one-control parallel operation by which the voltage or current can be expanded.

Use of an external resistor also permits the output voltage to be remote-controlled.

2. SPECIFICATIONS

AC input	_____ V AC \pm 10%, 50/60Hz
Full load	Approximately 400VA
Dimensions	Case 210W \times 140H \times 410D mm*
Maximum	215W \times 165H \times 453D mm
Weight	Approximately 13.5 kg
Ambient temperature	0 - 40°C
Accessories supplied	Short bar 1
	Fuse 5A 2
	Operation manual 1
Output	
Terminals	On the front panel color coded, aligned horizontally, Spaced 19 mm equally (-, GND, +); the terminal board on the rear panel (-sampling, -, GND, +sampling, +); a built-in switch for output.
Polarity	Positive or negative
Floating voltage	\pm 150V maximum
Constant voltage characteristics;	
Voltage	0 - 35V continuously variable with 10-turn variable resistor
Current	5A
Ripple and Noise (5 Hz - 1 MHz)	500 μ V rms
Voltage regulation	
Line regulation	0.005% + 1mV against \pm 10% variation of line voltage
Load regulation	0.005% + 1mV against 0 - 100% variation of load current

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Transient response time	Typical 100 μ s
Temperature coefficient	Typical 100PPM/ $^{\circ}$ C
Constant current characteristics;	
Voltage	0 - 35V continuously variable with 10-turn variable resistor
Current	0.2 - 5A
Ripple and Noise (5 Hz - 1 MHz)	1mA rms
Current regulation	
Line regulation	1mA against $\pm 10\%$ variation of line voltage
Load regulation	3mA against 0 - 100% variation of output voltage

Operation Series connection.
 Parallel connection.
 One-control parallel operation.
 Output voltage remote control.

Operation mode indication

indication	Constant voltage C.V
by light emission diode	Constant current C.C

Voltmeter	DC 35V	accuracy 2.5% of full scale
Ammeter	DC 6.0A	accuracy 2.5% of full scale

* Two PAC35-5 s can be mounted side by side on 19" or 500 mm standard rack with the rack mount frame.

* Over voltage protector Model OVP70-10 can be mounted as option.