

REGULATED DC POWER SUPPLIES

Regulated DC Power Supplies

PAC/PAC-R SERIES

20V/3A

PAC20-3/R

30V/2A

PAC30-2/R

30V/3A

PAC30-3/R

30V/6A

PAC30-6/R

60V/1A

PAC60-1/R

60V/3A

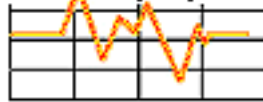
PAC60-3/R

OUTLINE

The PAC/PAC-R Series regulated CV/CC power supplies are designed to provide a compact power supply package with high performance, and ensure excellent reliability as well as excellent design.

Twelve types are available for a variety of requirements. Whether used individually or operated by series or parallel for greater capacity, the PAC/PAC-R Series ensures excellent performance.

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PAC20-3R



PAC20-3

PAC/PAC-R SERIES

FEATURES

Low ripple and low noise characteristics

Ripple and noise are kept extremely low by use of the series regulator method, and excellent electrical characteristics are provided.

Simultaneous display (voltage and current)

Using 3-digit LED, voltage and current can be set and confirmed simultaneously.

Floating output terminals

Floating output terminals is provided for either positive or negative ground.

Series/parallel operation (only for PAC-R series)

The output voltage can be increased by series operation, while output current can be increased by parallel operation.

Remote sensing terminal (only for PAC-R series)

PAC-R power supply can monitor the voltage at the load and stabilize voltage at the load.

Remote control terminals (only for PAC-R series)

Remote control terminals on the rear panel can be used for control of output voltage and current by external resistance or voltage.



PAC30-3R



PAC30-3

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SPECIFICATIONS

Model	PAC20-3/R	PAC30-2/R	
Output			
Output voltage	0 to 20V	0 to 30V	
Output current	0 to 3A	0 to 2A	
Constant voltage characteristics			
input regulation	For AC $\pm 10\%$ fluctuation	4mV	5mV
Load regulation	For 0 to 100% fluctuation	4mV	5mV
Ripple and noise	10Hz to 1MHz	0.5mV rms	
Ripple peak	10Hz to 20MHz	3mVp-p	
Transient response	Standard value (current 5%to100%)	50 μ Typical	
Temperature coefficient	Standard value	100ppm/ $^{\circ}$ C Typical	
Remote control (PAC-R only)			
Controlled by external voltage 0 to 10V	Output voltage	0 to 20V $\pm 5\%$	0 to 30V $\pm 5\%$
Controlled by external resistance 0 to 10k Ω	Output voltage	0 to 20V $\pm 5\%$	0 to 30V $\pm 5\%$
Constant current characteristics			
Input regulation	For AC $\pm 10\%$ fluctuation	2mA	
Load regulation	For 0 to 100% fluctuation	10mA	
Ripple and noise	10Hz to 1MHz	2mA rms	
Temperature coefficient	Standard value	250ppm/ $^{\circ}$ C Typical	
Remote control (PAC-R only)			
Controlled by external voltage 0 to 10V	Output current	0 to 3A $\pm 5\%$	0 to 2A $\pm 5\%$
Controlled by external resistance 0 to 10k Ω	Output current	0 to 3A $\pm 5\%$	0 to 2A $\pm 5\%$
Constant voltage operation indication	CV (green LED) lights		
Constant current operation indication	OC (red LED) lights		
Digital meter Indication			
Voltmeter indication	Red 3-digit LED	Max.99.9V, fixed range	
Accuracy	Output ON	$\pm(0.2\% \text{ rdg} + 2\text{digits})$	
Ammeter indication	Red 3-digit LED	Max.99.9V, fixed range	
Accuracy	Output ON	$\pm(1.0\% \text{ rdg} + 3\text{digits})$	
Functions			
Output ON/OFF	Output on/off is possible		
Remote (PAC-R only)			
Remote sensing	PAC-R series only	Possible by using the (+S) and (-S) terminals on the panel.	
Series operation	Master/slave mode, PAC-R series only	One control series operation is possible	
Parallel operation	Master/slave mode, PAC-R series only	One control parallel operation is possible	
Operating conditions (Indoor use only)			
Altitude	Up to 2000m		
Overvoltage category	Category 2		
Operating temperature and humidity range	0 to 40 $^{\circ}$ C 10 to 80%RH		
Storage temperature and humidity range	-20 to 60 $^{\circ}$ C 10 to 85%RH		
Cooling method	Natural air cooling		
Output polarity	+(red), -(white), GND(black),		
Ground proof voltage	$\pm 200\text{V}$		
Insulation resistance	Between chassis and input supply	DC500V 30M Ω	
	Between chassis and input terminal	DC500V 20M Ω	
Power			
Input power	Voltage fluctuation: within $\pm 10\%$	AC100V/120V/220V/230V, selectable	
Input power consumption	(Approx.)	175VA/125W	165VA/115W
Dimension, weight			
Dimension (W \times H \times D) mm	134 \times 147 \times 322	134 \times 147 \times 322	
Max.dimensions (W \times H \times D) mm	138 \times 162 \times 345	138 \times 162 \times 345	
Weight (kg)	5.9	5.8	
Accessories	Instruction manual (1), power cable (1)		

PAC/PAC-R SERIES

	PAC30-3/R	PAC30-6/R	PAC60-1/R	PAC60-3/R
			0 to 60V	
	0 to 3A	0 to 6A	0 to 1A	0 to 3A
			8mV	
			8mV	
		1mV rms		
	4mVp-p			
			0 to 60V±5%	
			0 to 60V ±5%	
		6mA	2mA	3mA
		15mA	10mA	15mA
		3mA rms	1mA rms	2mA rms
	0 to 3A ±5%	0 to 6A ±5%	0 to 1A ±5%	0 to 3A±5%
	0 to 3A ±5%	0 to 6A ±5%	0 to 1A ±5%	0 to 3A ±5%
(Remote control is possible only for the PAC-R series)				
Compensation possible up to 1V one way.				
(within the ground proof voltage).				
(only for same models).				
*grounding possible				
	235VA/165W	450VA/370W	145VA/100W	380VA/300W
	134 × 147 × 322	210 × 147 × 324	134 × 147 × 322	210 × 146 × 324
	138 × 162 × 345	210 × 163 × 347	138 × 162 × 345	210 × 163 × 347
	6.6	10	5.8	10

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