

PAX series

PROGRAMMABLE DC POWER SUPPLY (CV-CC)



Potential Expandability for Use as Pattern Generators, Simulation Power Supplies and Other Applications

Features

■ Equipped with a Sequence Function

Sequence patterns can be set from the panel or using the GPIB interface function, and then stored in internal memory. Sequences can then be executed from not only the panel, but also by using a remote controller or host computer. In addition, sequence speed can be selected from among a fast speed, which allows programming of a single step at a minimum of 100 μ s intervals, or a normal speed, which allows programming of ramp waveforms in a single step.

■ 50 μ s High-Speed Compatibility (Fast Mode)

Switching between 3 ranges and high-speed rise and fall characteristics of a maximum of 50 μ s allow these power supplies to be used as simulation power supplies.

■ Low Ripple Noise

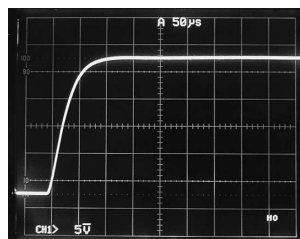
The excellent output characteristics through the use of a power amplification system allow these power supplies to be used with communication devices, audio equipment and at EMC sites.

■ Expandability for System Incorporation

The use of Kikusui's original MCB system (multi-channel bus system) allows simultaneous operation of a large number of DC power supplies, allowing operation of a maximum of 16 units with a single GPIB address, as well as a maximum of 16 units with a single RS-232C port.

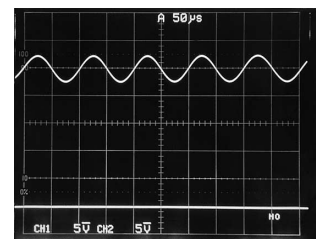
■ Human-Engineered Ease of Operation

The use of a jog shuttle setting system allow settings to be entered easily corresponding to the particular application.

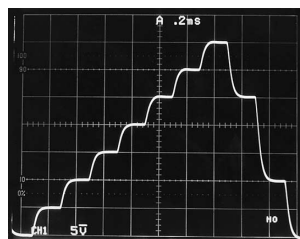


Max. 50 μ s Rise and Fall Characteristics (Fast Mode)

3 ranges (50 μ s, 500 μ s, and 5ms) can be selected.

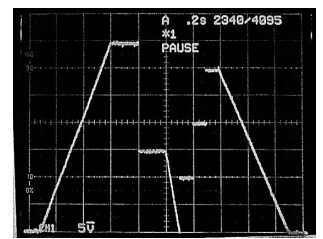


Waveform Superimposed by AC Using an External Oscillator



Sequence Mode (Fast Mode)

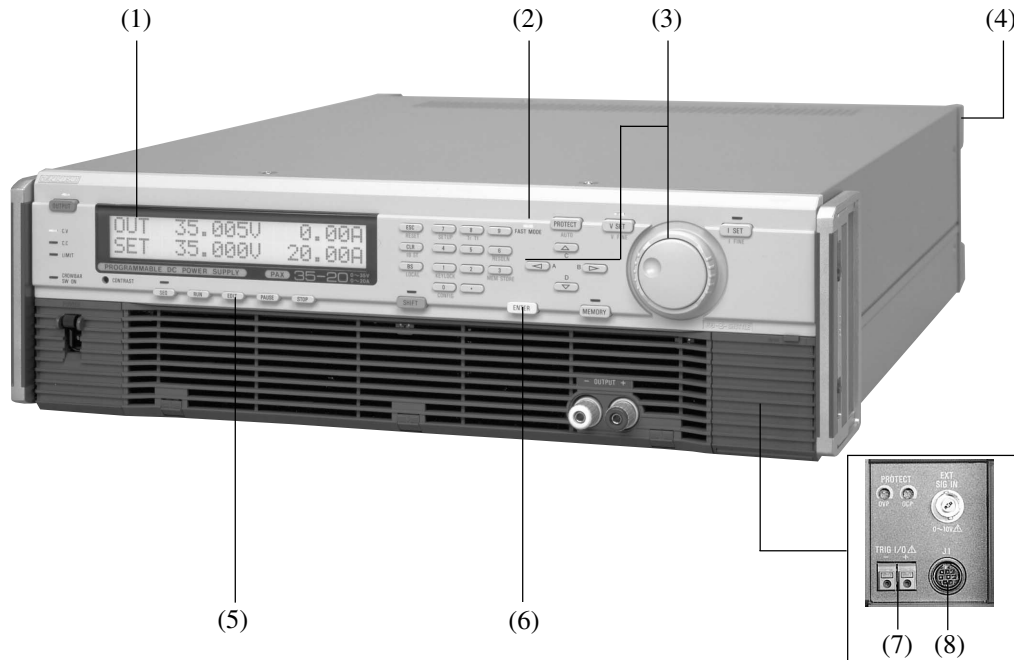
Allows programming at a maximum speed of 100 μ s/step.



Sequence Mode (Normal Mode)

Allows programming of ramp waveforms in a single step.

Panel Description



- (1) Large, Legible Display
EL Backlighted LCD display is able to display two rows of 20 characters each.
- (2) 2 Operating Modes for an Expanded Application Range
 - 1)Fast Mode
High-speed rise and fall at a maximum of 50 μ s realizes added convenience in simulation testing.
 - 2)Normal Mode
The normal mode allows the obtaining of an output having low ripple and low noise levels.
- (3) Selection of 2 Setting Methods to Match the Situation
 - 1)Jog Shuttle Setting
 - 2)10-Key Setting
- (4) Various Interfaces are Available(optional)
 - 1)GPIB
 - 2)RS-232C
 - 3)MCB (Multi-Channel Bus System)
The use of Kikusui's original interface function allows a large number of power supplies to be operated simultaneously.
- (5) Dual Speed Sequence Function
 - 1)Fast Speed Sequence (1024 steps/file)
Allows programming of steps at a minimum of 100 μ s intervals.
 - 2)Normal Speed Sequence (256 steps/file)
Allows programming of ramp waveforms in a single step.
- (6) 4 Internal Memories for Added Convenience in repetitive Testing
The panel settings for voltage and current can be stored in memories A to D.
- (7) Equipped with Convenient Trigger In/Out Function
 - 1)IN
This allows starting of the paused sequence.
 - 2)OUT
This allows the trigger to be output at a specified point in the sequence program.
- (8) Convenient Remote Controller (optional)
 - 1)RC02-PAX Remote Controller



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Specifications

Model	PAX35-10	PAX35-20	PAX35-30
Power Source	AC100V±10% 50/60Hz, 1φ(110, 120, 200, 220 and 240V available as factory options)		
Input Current (Full Load, AC100V)	8.5A	17.5A	25A
Rush Current	13A(for an power source of AC110V)		
Output Voltage	0 to 35.00V		
Resolution (*1)	1mV		
Temperature Coefficient	100ppm/°C(35ppm/°C typical)		
Output Current	0 to 10.00A	0 to 20.00A	0 to 30.00A
Resolution (*1)	1mA		
Temperature Coefficient	150ppm/°C(50ppm/°C typical)		
Constant Voltage(CV) Mode (Normal Mode)			
Ripple(RMS/P-P*)	0.2mV/3mV	0.4mV/3mV	0.4mV/3mV
Load Regulation	1mV	2mV	2mV
Line Regulation	1mV		
Rise/Fall Time(*)	50ms/50ms		
Constant Voltage(CV) Mode (Fast Mode)			
Ripple(RMS/P-P*)	2mV/10mV	2mV/10mV	3mV/10mV
Load Regulation	1mV	2mV	2mV
Line Regulation	1mV		
Rise/Fall Time(*)	50μs,500μs,5ms/50μs,500μs,5ms		
Constant Current(CC) Mode (Normal Mode)			
Ripple(RMS)	2mA	2mA	3mA
Load Regulation	7mA		
Line Regulation	1mA	2mA	3mA
Rise/Fall Time(*)	50ms/50ms		
Constant Current(CC) Mode (Fast Mode)			
Ripple(RMS)	3mA	6mA	10mA
Load Regulation	10mA		
Line Regulation	1mA	2mA	3mA
Rise/Fall Time(*)	50μs,500μs,5ms/50μs,500μs,5ms		
Protective Functions	Soft OVP, Soft OCP, Soft OCP Delay, Hard OVP, Hard OCP		
Operating Temperature and Humidity Ranges	0 to 40°C/30 to 80% RH		
Storage Temperature and Humidity Ranges	-20 to 70°C/20 to 80% RH		
Dimensions(mm)	430W×132H×450D	430W×132H×550D	
Weight(Approx.)	26kg	33kg	40kg

* Items indicated with an asterisk(*) represent typical values for which performance is not guaranteed. Such values are provided to serve as a general reference during use.

*1 : When using auto fine function.

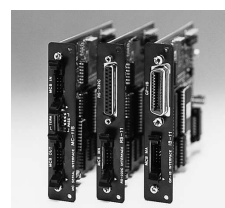
Optional Accessories

Optional Accessories

RC02-PAX	Full Remote Controller
IB11	GPIB Interface
RS11	RS-232C Interface
MC11S	MCB Interface(MCB: Multi-Channel-Bus)



Full Remote Controller (RC02-PAX)



Various Interfaces are Available as User Options