FORCETEK

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AC Power Sources FZV series



Features:

- Compact size and light weight, Standard 19" rack construction
- Step-less Frequency setting from 45Hz to 450Hz
- Very Low distortion Sine wave output
- Output Voltage range selectable 135V or 270V AC
- Galvanically isolated Input/ Output
- Independent On/OFF Switch for input and output
- 16x2 Vacuum Fluroscent Display for parameter display
- Complete operation through push switches & a digital rotary encoder
- Automatic protection against overload, short circuit and over temperature
- Built in PFC to provide 0.99 input power factor and wide input range

FZV series of Programmable AC Power Source is compact in size and light in weight due to the use of the state of the art Switch Mode High Frequency PWM technology. These AC Power Sources come with a built in PFC with universal input to provide a typical input power factor of 0.99 at full load, suitable for all the utility power outlets in almost all the countries. The output AC is of full rated current and is delivered in the voltage range of 135V AC or 270V AC, which is user selectable, using a push switch on the front panel.

The PROGRAMMABLE AC SOURCE is provided with 16x2 character VF Display for parameter display (Output Voltage & selected voltage range, Current, Frequency, Power & Mode of operation; Local/Remote). The control is through a rotary encoder with the push button switch for control of output voltage & Frequency. A separate output ON/OFF switch controls power to the load. The unit is protected against over temperature, overload and short circuit.

These units are available in five output power ratings of 500VA, 1000VA, 1500VA, 2000 VA & 3000 VA. It is ideally suitable for industrial product testing; power conversion, automatic test equipment, avionics and military applications for bench top or standard 19" rack mount applications.

Options:

Analog Programming 0...5VDC or 0...10VDC User Defined RS232 Interface Programming Extended Voltage Range 0...150V, 0...30V Rack Mounting Kit



Technical Data

ELECTI A. INPU	Details of Parameters	FZV500/270/2	FZV1000/270/4	FZV150	0/270/6	FZV2000/270/8	FZV3000/270/12	
A. INPU	RICAL							
	IT							
1	Voltage	90	IV – 265V AC, Single	Phase		185 V – 264 \	/ AC, Single Phase	
2	Frequency	47 Hz to 440Hz				47 Hz to 440Hz		
3	Power Factor	0.99 Typical @ Full Load			0.99 Typical @ Full Load			
4	Efficiency	85% Typical				85% Typical		
B. AC O	UTPUT							
5	Power	500VA/400W	1000VA/800W	1500VA/12	200W	2000VA/1600W	3000VA/2400W	
6	Voltage Range	0-135Vrms Ac or 0-270Vrms AC selectable 0.1V						
	Resolution							
	Accuracy	0.5% of full scale						
7	Frequency	45Hz to 450Hz						
	Accuracy			f Full scale				
	Resolution	0.01Hz						
8	Current – Maximum	1						
	(a) at 0-135V Range	4.0 Amps	8.0 Amps	12.0 Amps		16.0 Amps	24.0 Amps	
	(b) at 0-270V Range	2.0 Amps	4.0 Amps	6.0 Amps		8.0 Amps	12.0 Amps	
9	Crest Factor				3:01			
10	Distortion	<2% THD @ 220VAC, 50 Hz						
11	Load Power Factor	0.8 Lag to 0.8 Lead						
12	Line Regulation	0.10%						
	-							
13	Load Regulation	<u>1%</u>						
C. PROT	TECTIONS	ļ						
14	Overload/Short-circuit			Output Trip	and Indicat	tion		
		Output Trip and Indication						
15	Over Temperature	Output Trip and Indication						
16	Input side			Fast a	cting Fuse			
D. CON	TROLS & INDICATIONS							
17	Input Power ON/OFF			Rocker Swit	ch with India	cator		
		Programmable				Manual		
18	Read out	2x16 Character Vacuum Fluorescent display for Output Voltage, Current, Frequency, Power, Range & Mode				⁸ ½ digit 7 segment display for output voltage, curren Power through selector switch		
19	Display				4 digit 7 segment display for output Frequency			
	Voltage: Accuracy	+/- 0.5% of full Scale				+/-1% of full scale	+/- 1 digit	
	volago. / local doy						, , , , , , , , , , , , , , , , , , ,	
	Resolution	0.1 V			1 V			
	Current: Accuracy	+/- 0.5% of full Scale			+/-1% of full scale, +/- 1 digit			
	Resolution	0.01 A			0.1 A			
	Power: Accuracy	+/- 2% of full scale			+/- 5% of full scale, +/- 1 digit, *			
	Resolution	1W				1W		
20	Controls	Digital Rotary Encoder for Voltage & Frequency Mul		Multiturn P				
	+	Setting			3 Push button switches for display selection, one pus			
						vitch for output range selection. Rocker swit for output ON/OFF selection.		
	Fault Alarm	Common LED alarm for Fault conditions						
21		(Over load & over temperature)						
21	Fault Alarm	(Over load & over temperature) RS 232 as standard						
	Interface					,		
					as standard	1		
		0-5		RS 232 RS 485 or 0	as standarc SPIB as opti	1	an Option.	
22		0-5		RS 232 RS 485 or 0 Analog Cont	as standarc SPIB as opti	onal	an Option.	
22	Interface	0-5		RS 232 RS 485 or 0 Analog Cont	as standarc SPIB as opti rol for Outpi	onal	an Option.	
22 23 24	Interface Baud rate			RS 232 RS 485 or 0 Analog Cont	as standard GPIB as opti rol for Outpo 9600	onal	an Option.	
22 23 24 MECHAN	Interface Baud rate Command Protocol			RS 232 RS 485 or 0 Analog Cont	as standard GPIB as opti rol for Outpo 9600	onal	an Option.	
22 23 24 MECHAN	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions			RS 232 RS 485 or 0 Analog Cont	as standard GPIB as opti rol for Outpo 9600	i onal ut Voltage setting as	an Option.	
22 23 24 MECHAN	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height		V or 0 -10 V Isolated	RS 232 RS 485 or C Analog Cont SCPI	as standarc GPIB as opti rol for Outpr 2600 Compliant	i onal ut Voltage setting as		
21 22 23 24 MECHAN 25	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height (b). Width		V or 0 -10 V Isolated	RS 232 RS 485 or C Analog Cont SCPI	as standard GPIB as opti rol for Outpu 6600 Compliant 2.6 mm	i onal ut Voltage setting as		
22 23 24 MECHAN 25	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height (b). Width (c). Depth	TAL	V or 0 -10 V Isolated 88.0 mm	RS 232 RS 485 or C Analog Cont SCPI 482 500	as standard GPIB as opti rol for Outpo 9600 Compliant 2.6 mm 0.0 mm	d onal ut Voltage setting as 1:	32 mm	
22 23 24 MECHAN	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height (b). Width		V or 0 -10 V Isolated	RS 232 RS 485 or C Analog Cont SCPI	as standard GPIB as opti rol for Outpo 9600 Compliant 2.6 mm 0.0 mm	i onal ut Voltage setting as		
22 23 24 MECHAN 25	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height (b). Width (c). Depth	TAL	V or 0 -10 V Isolated 88.0 mm	RS 232 RS 485 or C Analog Cont SCPI 482 500 23	as standard GPIB as opti rol for Outpo 9600 Compliant 2.6 mm 0.0 mm	i onal ut Voltage setting as 1: 30 Kg	32 mm	
22 23 24 MECHAN 25 26	Interface Baud rate Command Protocol NICAL & ENVIRONMEN Dimensions (a) Height (b). Width (c). Depth Weight in KGs	TAL	V or 0 -10 V Isolated 88.0 mm 21 Kg	RS 232 RS 485 or C Analog Cont SCPI 482 500 23 0-45°C,	as standarc SPIB as opti- rol for Output- 2600 Compliant 2.6 mm 0.0 mm Kg peak 50° C	i onal ut Voltage setting as 1: 30 Kg	32 mm	