



Model 8600 Series



Programmable AC Power Source

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 florescent display for parameter display
- Complete operation through push switches & a digital rotary encoder
- Automatic protection against overload, short circuit & over temperature
- Built in PFC to provide 0.99 input power factor and wide input range
- Conforms to EN55022, class A, safety standard EN60950

DE's all new 8600 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 A C 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 Power 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 three output power ratings of 500VA, 1000VA and 1500VA. However higher power models can be offered against specific requirements. 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.

Model Selection:

86

Series

05

Power Output

05- 500VA
10- 1000VA
15- 1500VA

M

M- Manual
A- Analog prog. 0-5V
P- Programmable

S

Optional Features

V- Extended Voltage Range, 0-150V, 0-300V
R- Factory fitted Rack mounting Kit

SPECIFICATIONS:

PARAMETERS	MODEL		
	8605P	8610P	8615P
ELECTRICAL			
INPUT			
Voltage	90V – 265V AC, single phase		
Frequency	47Hz to 63Hz		
Power Factor	0.99 typical @ full load		
Efficiency	85% typical		
AC OUTPUT			
Power	500VA (400W)	1000VA (800W)	1500VA (1200W)
Voltage Range	0-135V rms AC or 0-270V rms AC selectable		
Resolution	0.1V		
Accuracy	0.5% of full scale		
Frequency	45Hz to 500Hz		
Accuracy	0.2% of full scale		
Resolution	0.01Hz		
Current – Maximum			
a) at 0-135V Range	4.0 Amps	8.0 Amps	12.0 Amps
b) at 0-270V Range	2.0 Amps	4.0 Amps	6.0 Amps
Crest Factor	3: 1		
Distortion	<2% THD @ 220VAC, 50Hz		
Load Power Factor	0.8 Lag to 0.8 Lead		
Line Regulation	±0.1%		
Load Regulation	±1%		
Efficiency	Better than 85% at nominal input & full load		
PROTECTIONS			
Overload/Short-circuit	Output trip and indication		
Over Temperature	Output trip and indication		
Input Side	Fast acting fuse		
CONTROLS & INDICATIONS			
Input Power ON/OFF	Rocker switch with indicator		
Read Out Display	2x16 character vacuum fluorescent display for output voltage, current, frequency, power, range & mode		
Voltage: Accuracy	±0.5% of full scale		
Resolution	0.1V		
Current: Accuracy	±0.5% of full scale		
Resolution	0.01A		
Power: Accuracy	±2% of full scale		
Resolution	1W		
Controls	Digital rotary encoder for voltage & frequency setting 5 push button switches for voltage, frequency, mode, range and output ON/ OFF selection.		
Fault Alarm	Common LED alarm for fault conditions (over load and over temperature)		
Interface	Rs232 as standard RS485 or GPIB as optional 0 – 5V isolated analog control for output voltage setting as an option.		
Baud Rate	9600		
Command Protocol	SCPI compliant		
MECHANICAL & ENVIRONMENTAL			
Dimensions in mm	88.0H x 482.6W x 500.0D		
Weight in Kgs	20	21	23
Operating Temperature	0-45°C, peak 50°C		
Input Connection	Terminal block with safety cover or universal receptacle		
Output Connection	Universal socket		
Safety	EN60950		
EMC	EN55022 class A		

Note: Specifications are subject to change without notice. Specifications are warranted over an ambient temperature range of 25°± 5° C. Unless otherwise noted, specifications are for a sine wave with a resistive load and apply after a 15 minute warm-up period



POWER CONTROLS & CONVERSION DIVISION

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