

EF 1 PPS Range



PROGRAMMABLE AC POWER SYSTEM

Effekta's all new EF1 series of Programmable AC Power Systems are compact in size and lightweight due to the use of the state-of-the art switch mode high frequency PWM technology. The EF 1 is supplied with input PFC providing a typical input power factor of 0.99 at full load allowing the EF 1 to be powered from almost any utility power outlet worldwide. The output AC is delivered in the voltage range of 135V AC or 270V AC, which is user selectable from the front panel.

The EF1 is provided with a 16x2 character VF display detailing output voltage, selected voltage range, current, frequency, power and mode of operation. The control of the output voltage and frequency is through a rotary encoder with push button switch. A separate output ON/OFF switch controls power to the load. The system is protected against over temperature, overload and short circuit.

The EF 1 PPS is available in three output power ratings of 500VA, 1500VA and 3000VA. However higher power models can be offered against specific requirements. The system is ideally suited for industrial product testing, power conversion, automatic test equipment, avionics and military applications for bench top or standard 19 inch rack mount applications.

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

MODEL OPTIONS

Power Output

- 500VA1500VA
- 3000VA
 3000VA

Optional FeaturesFactory-fitted Rack Mounting Kit

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TECHNICAL DATA

EF1 PPS Range	500	1500	3000	
INPUT				
Voltage	90V – 265V A	AC, single phase	185V – 264V AC, single phase	
Frequency	47Hz to 63Hz			
Power Factor	0.99 typical @ full load			
Efficiency	85% typical			
AC OUTPUT				
Power	500VA (400W)	1500VA (1200W)	3000VA (2400W)	
Voltage Range	0-1	35V rms AC or 0-270V rms AC selecta	ble	
Resolution	0.1V			
Accuracy	1% of full scale			
Frequency	45Hz to 450Hz			
Accuracy	0.2% of full scale			
Resolution	0.01Hz			
Current – Maximum:		0.01112		
a) at 0-135V/ Bange	4.0 Amps	12 0 Amps	24 0 Amps	
h) at 0-270V Range	2 Ω Δmns	6 0 Amps	12 Ω Δmps	
Crest Factor	2.07mp3	3.1	12.07.000	
Distortion	~2% THD @ 220\/AC 50Hz			
Load Power Factor				
	+1%			
		±1/6		
Overlead/Short airquit	Output trip and indication			
	ONS			
Input Power ON/OFF		Bocker switch with indicator		
Read Out Display	Programmable: 2x16 character vacuum fluorescent display for			
	output voltage, current, frequency, power, range & mode			
Voltage: Accuracy	±1% of full scale			
Resolution	0.1V			
Current: Accuracy	±1% ot tull 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 & ENVIRON	MENTAL	· · ·		
Dimensions in mm	88H x 482	2.6W x 500D	132H x 482.6W x 520D	
Weight in Kgs	20	23	35	
Operating Temperature		0-45°C, peak 50°C		
Input Connection	Terminal block with safety cover or universal recentacle			
Output Connection	I Iniversal socket			
Safety	FN60950			
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. The unit will operate with input voltage range of 90V–265V AC. However for continuous operation, the voltage required will be 100V and above.





