



## SPECIFICATIONS

### INPUT

Voltage	90-264 VAC (continuous range)
Frequency	47-63 Hz
Current	
Full Load	100 VAC - 1.1A (RMS) 200 VAC - 0.6A (RMS)
Inrush (cold start)	120 VAC - 35A 240 VAC - 70A
Power Factor	98% (typ) at 115 VAC

### OUTPUT

Rated Power	90 watts (convection cooled)
Efficiency	82-85% (typ)
Voltage	See model selection table
Voltage Adjustment	All outputs are fixed
Total Regulation	Output 1 (main) ±5% Output 2 ±10% Output 3&4 ±5% These outputs are 3 terminal regulators.
Ripple & Noise (peak-to-peak)	Output 1 (5V) - 50mV Output 2 (12V, 15V, 24V) - 1.5% Output 3,4 (+/-12V, +/-15V, -5V) - 1% (measured at 25°C with a bandwidth of 50 MHz)
Hold-up Time	10mS (measured with an input of 90-264 VAC and 100% rated output)
Converter Topology	Resonant Converter
Operating Frequency	80-110 KHz

### PROTECTION

Overvoltage	Outputs 1&2 are protected against over-voltage. The control circuit is preset so the output voltage does not exceed the following values:										
	<table border="0"> <tr> <td>Output Voltage</td> <td>5</td> <td>2</td> <td>15</td> <td>24</td> </tr> <tr> <td>OVP Setpoint (max)</td> <td>6</td> <td>6.9</td> <td>15.5</td> <td>18.5</td> </tr> </table>	Output Voltage	5	2	15	24	OVP Setpoint (max)	6	6.9	15.5	18.5
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OVP Setpoint (max)	6	6.9	15.5	18.5							
	Outputs 3,4 which are three terminal regulated are not overvoltage protected										

## FEATURES

- Smallest, fully-featured 90-watt power supply available 3.35 x 5.69 x 1.30 inches
- High power density
- U channel with optional cover
- Universal input
- Power factor corrected to IEC 1000-3-2
- UL1950/CSA22.2 No.950/EN60950/CE
- FCC/VDE Class B EMI filter
- Quad output, various output combinations
- Molex pin connector, terminal block
- MTBF - Over 400,000 hours

Overload load	All models are protected against over-on the primary side to a maximum of 160W. Recovery is automatic after removal of the fault.
Common Mode Noise Electrical Fast Transient/Burst	1.5V (peak-to-peak) +/-2000V, 50nS to IEC 1000-4-4
ESD Tolerance	+/-8KV to IEC 1000-4-2
Surge Tolerance	Input-Input +/-1KV to IEC1000-4-5 Input-Chassis +/-2KV to IEC1000-4-5
Susceptibility to Radio Frequency, Electromagnetic Field	80-1000 MHz 10V/m 80%AM (1 KHz) to IEC1000-4-3
Susceptibility to Radio Frequency, Common Mode	0.15-80 MHz 10V 80%AM to IEC1000-4-6

## INSULATION

All models meet the requirements of UL1950, CSA22.2 No. 950 and Leakage Current specifications.

Isolation Voltage	
Primary-Frame Ground	1500 VAC
Primary-Secondary	3000 VAC
Secondary-Frame Ground	500 VDC
Insulation Resistance	
Primary-Frame Ground	100 MΩ at 500 VDC
Primary-Secondary	100 MΩ at 500 VDC
Secondary-Frame Ground	100 MΩ at 500 VDC

## ENVIRONMENT

Operating Temp.	0°C to + 60°C
	Consult factory for derating curves
Cooling Method	Convection
Storage Temp.	-30°C to + 85°C
Shock	10G
Vibration X,Y, Z	4.5G, 10 - 55 Hz, 0.75mm amplitude, 2 hours (non-operating)

## MODEL RATINGS

Model #	Output Rating							
	Output #1 (V1)		Output #2 (V2)		Output #3 (V3)		Output #4 (V4)	
FYX 900/61* - BDdb	5V	0-14A	+12V	0-4.5A(6Apk)	-12V	0-1A	-5V	0-1A
FYX 900/62* - BDDd	5V	0-14A	+12V(2)	0-4.5A(6Apk)	+12V	0-1A	-12V	0-1A
FYX 900/63* - BGEe	5V	0-14A	+24V	0-2.25A(3Apk)	+15V	0-1A	-15V	0-1A
FYX 900/64* - BGDd	5V	0-14A	+24V	0-2.25A(3Apk)	+12V	0-1A	-12V	0-1A
FYX 900/65* - BDDb	5V	0-14A	+12V	0-4.5A(6Apk)	+12V	0-1A	-5V	0-1A
FYX 900/73* - BEeb	5V	0-14A	+15V	0-3.6A(4.8Apk)	-15V	0-1A	-5V	0-1A
FYX 900/67* - BDGd	5V	0-14A	+12V	0-4.5A(6Apk)	+24V	0-2A	-12V	0-2A

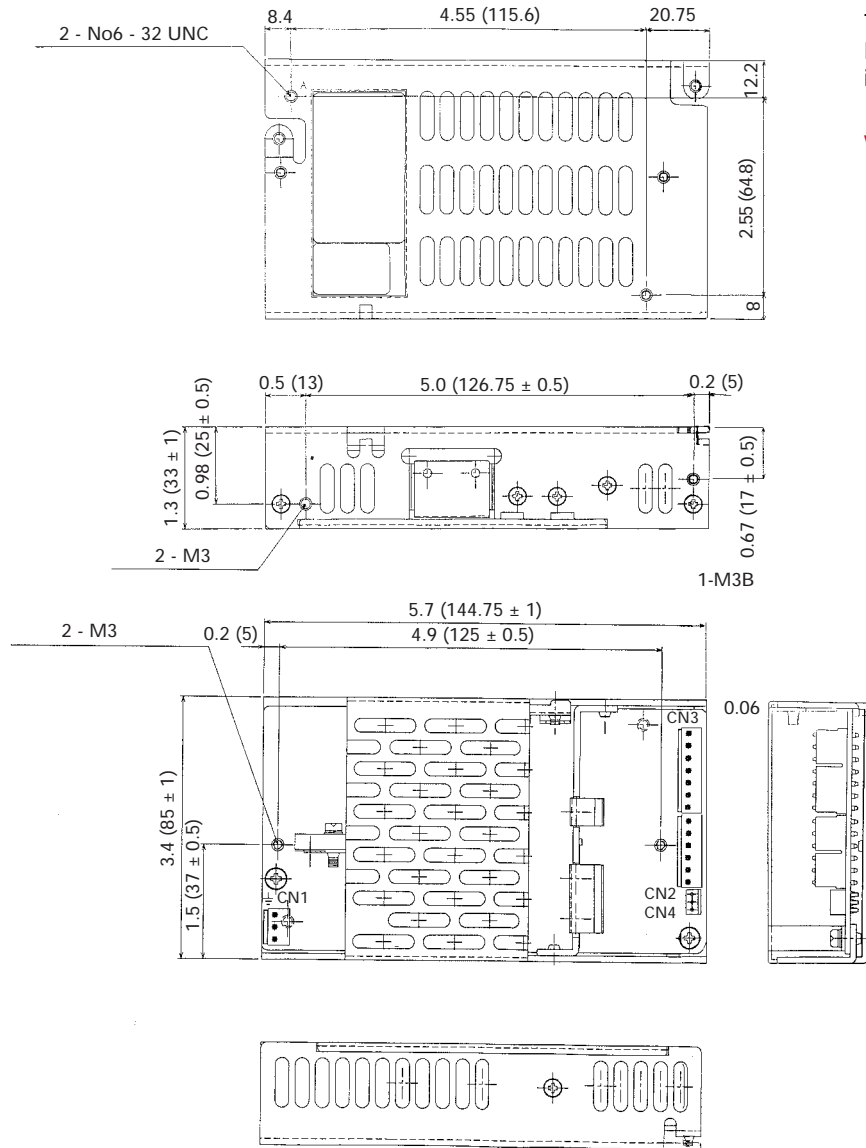
\*Insert "P" for molex pin version or "T" for terminal block version after model number.

Note: A minimum load of 6.2W is required on either Output 1 or Output 2 or as a combination of these Outputs.

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**CONNECTOR DESIGNATION**

Molex Pin Type

CN1	1	N	Connector:	Molex 41791 3 Pin
	2	NC		26-60-4030
	3	L	Mate:	Molex 2139 series/ 09-50-3031, Pin #2478
CN2	1	Common	Connector:	Molex 41791 6 Pin
	2	Common		26-60-4060
	3	Common	Mate:	Molex 2139 series/ 09-50-3061, Pin #2478
	4	Output 1		
	5	Output 1		
	6	Output 1		
CN3	1	Common	Connector:	Molex 41791 7 Pin
	2	Common		26-60-4070
	3	Output 2	Mate:	Molex 2139 series/
	4	Output 2		
	5	Output 3		
	6	Common		
	7	Output 4		

Terminal Block Type

TB1	1	L		3mm screw type
	2	N		
TB2	1	Common		3mm screw type
	2	Output 1		
	3	Common		
	4	Output 2		
	5	Output 3		
	6	Output 4		

Power Fail CN4	1	Gnd	Connector:	Molex 6373 3 Pin
	2	Gnd		22-23-2031
	3	PF	Mate:	Molex 2695 series/ 22-01-2037, Pin #2759

All specifications are subject to change without notice.