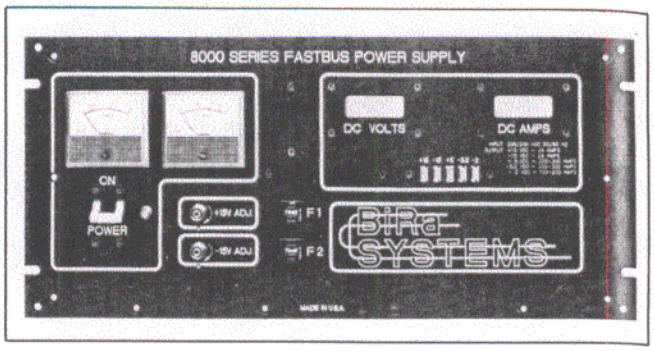
MODEL FB8189 FASTBUS POWER SUPPLY

FEATURES:

- Dual LCD Digital Voltmeters for Outputs
- All outputs Monitored
- +/- 15V DC & 24A Shared to 600 Watts
- 200-260V 47-63Hz Input
- Panel Meters for Input AC



This unit is a rack mounted Power Supply Assembly intended for use with a FASTBUS crate. The FB8189 provides the +/- 15VDC, mains switches and metering, and the wired frame for mounting the switching regulators which supply the +5V, - 5.2V, and -2V DC digital power to the crate. All outputs are monitored by dual (voltage & current) LCD digital voltmeters switch selected from the front panel. Input voltage and current are also metered at the front panel. The FB8189 also provides the switched mains voltage for a blower and external switching regulator power supplies. Any combination of three standard 5"x 8"x11-14" packages can be added by inserting them into the slots provided at the rear of the unit. Current options available are 120 or 200A for -2V and 200 or 300A for the -5.2 and +5. For units with switching regulators providing 200A or less each, inputs of 100-130 or 200-260V AC 47-63Hz are available. For crates requiring any switching regulator with an output above 200A units are available only with 200-260VAC 47-63Hz input. All switching regulators have self-contained fans which circulate air inside the chassis. All units have an ambient air temperature operating range of 0-50 degrees C.

Switching Regulator Power Supplies plug into pre-wired slots at rear of Power Supply Chassis. The -5.2 and +5V regulators are interchangeable. The +15V DC regulators, mains switching, and metering circuitry are pre-wired with plugs, switching current shunts, and all wiring including power leads to the crate.

ORDERING INFORMATION

Model FB8189-0 Power supply +/-15V, No switching Regulators
Model FB8189-1 Power supply +/-15V, -2V@120A, -5V@200A, +5V@200A
Model FB8189-2 Power supply +/-15V, -2V@120A, -5V@200A, +5V@300A
Model FB8189-3 Power supply +/-15V, -2V@200A, -5V@300A, +5V@200A
Model FB8189-4 Power supply +/-15V, -2V@200A, -5V@300A, +5V@300A

NOTE 1: +/- 15V Outputs Current Shared to 120% of output shown.

Specifications	Model 8189	300 AMP SW. REG.	100-200 AMP SW. REG.
Input	208-240V 47-63Hz	182-262VAC 47-63Hz	182-240VAC 47-63Hz
Output (See note 1)	+/- 15V @ 24 Amps	+5V or -5.2V	+5V, -5.2V or -2V
Regulation	(line & load) +/- 0.2%	TOTAL ERROR BAND: +/-2% or +100mV (whichever is greater) including the following: #Input Power variation over specified range. #Static Load variation 0-100% of full. #Dynamic Load stop (10 µsec rise) of 20% or 50A. #Ripple and Noise. #Temperature Stability over 0-50 deg. C. #Drift for an 8-hour period.	
Noise & Ripple	Less than 10 mV p.p.		
Ambient Temperature	0-50 deg C.		
Temperature Coeff.	0.02%/C		
Transient Recovery	50 µsec typical		
Fusing	Mains and all Reg. Input		
Remote Sensing	All Outputs		
Overload Protection	Foldback Current Limiting All Outputs		
Overvoltage Protection	125% max - All Outputs		
Overtemp. Protection	Automatic Shutdown		
Metering	Dual Liquid Crystal DVM : All Outputs by Switch Select		
Options		Status Bit	
Power Loss Holdup	16 msec	20 msec	30 msec
Efficiency	40%	72%	72%
Voltage Adj.	+/- 2.0% min.	+/-10% min.	+/-10% min.
Shipping Weights	49 lbs.	24 lbs.	26 lbs.
Size	8.75" X 26" X 19" Rack	5" X 8" X 11"	5" X 8" X 11"

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