

Excellent Integrated System Limited

Stocking Distributor

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TDK-Lambda Americas, Inc. FE2000-48NA

For any questions, you can email us directly: sales@integrated-circuit.com



FE Series

Compact, rack-mountable rectifiers



High Density

Low Cost

Modular and Scaleable

Hot Plug N+1 Redundancy

Integral Diagnostics

Automatic Fault Reset

Wide Range Input & Power Factor Correction

Battery Plant Compliant

Front Panel Monitoring

Bellcore Compliant

Worldwide Safety Agency Approvals

Standard Racking System

Lambda's FE Series modular front ends are the ideal foundation for fault-tolerant distributed power architectures. Designed specifically for telecommunications and high-end computer applications, the FE Series is available in 24 or 48 VDC output modules. Delivering from 500W to 6kW of scalable power, all models are Belicore and ETSI compliant, and meet FCC Class B EMI emissions standards when mounted in "N" or "L" version rack systems. In addition, the FE Series takes up 35% less space than the nearest competitor, and features remote diagnostics, overvoltage and overtemperature protection for remote site use. Hot pluggable and N+N redundant, Lambda's FE Series Power Modules and FE Series Racking System are the most reliable. cost efficient system solutions available . They make designing, building and qualifying your system easier, quicker, and much less expensive.

JFS PD600 WLR2800 Chassis Mount Convection Cooled Higher Power Page

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AC Input	85-265VAC, 47-63Hz for FE0500, FE1000 & FE1500. 170-265VAC, 47-63Hz for FE2000.		
Efficiency	79% typical for 50-100% load without isolation diodes.		
Power Factor Correction	0.95 minimum at full load. Compliant to EN60555-2.		
Hot Maintenance	Unit is capable of being inserted and extracted with all operational voltages present, with or without Or-ing diode option.		
Surge Current Capability	±10% of max. unit load from 10% to 100% load. Current sharing is accomplished via a single wire connection.		
Surge Immunity	IEC-1000-5 Level 3 Standard. IEC-1000-5 Level 4, with external MOV's. EN61000-4 (-2,-3,-4,-5,-6,)		
Conducted EMI	Module/"X" Rack System: FCC-CFR Part 15, Class A. EN55022 Class A, for conducted & radiated emissions. "L" & "N" Rack Systems: FCC-CFR Part 15, Class B and, EN55022, Class B for Conducted. FCC-CFR Part 15, Class A and EN55022 Class A for radiated emissions.		
Conducted Battery Noise	Belicore TR-NWT-001089, TR-TSY000947, Cispr 22 Phosphometric Noise.		
Line Regulation	1.0% from no load to full load. 85-265VAC (170-265VAC for FE2000).		
Ripple and Noise,	250mV pk-pk max on 24V model. 500mV pk-pk on 48V model. EIAJ RC-9002A procedure (20Mhz bandwidth limit).		
Auxiliary Bias Supply	12VDC at 50mA.		
Hold-up Time	Output will be maintained above lower limit of output voltage range for 16msec. Upon loss/disconnect of AC input, when operated at Vout nominal/full load.		
Overvoltage Protection	Adjustable non-latching unit shutdown.		
Overload Protection	The power module limits the output current to approximately 110% of the full power rating. The module will withstand an indefinite short circuit without damage and is self-recovering.		
Operating Temperature Range	-40°C to +70°C ambient. (-40°C requires 30 min. warmup; 50°C to 70°C, derating required.		
Storage Temperature	-40°C to +85°C.		
Humidity	0 to 95% (non-condensing).		
Temperature Drift	±2% over the entire temperature range and life.		
Isolation	Input to Chassis –1.5K VAC. Input to Output – 3.0K VAC. Output to Chassis –500 VDC.		
Vibration and Shock	NEBS rack system compliant with Bellcore GR-63-CORE, ZONE 4, Upper Level.		
Output Good Signal	Signal indicates output is present and inverter is operational.		
Input Good Signal	Provides fault status on AC line.		
Led Status Indicator	AC GOOD LED - Indicates input power is present. DC GOOD LED - Indicates DC output voltage is present. OT LED - Indicates thermal shutdown has occurred. OUTPUT CURRENT LED - Ladder displays approximate percentage of output current.		
Overtemperature Protection .	Internal circuitry prevents damage in the event of excessive ambient operating temperature. The output spontaneously returns when the overtemperature condition is cleared.		
Remote On/Off	Standard: Contact closure or TTL Low – output enabled. Contact open or TTL High – output disabled.		
Safety Agency Approval	UL1950, IEC950, EN 60950, CSA 22.2-234, CE MARK (LVD)		
Warranty	2 years.		

Individual	Modules

MODEL	MAX CURRENT (A)	POWER (W)	OUTPUT (ADJ)
FE0500-24NA	25.0	500	24V (20-29)
FE0500-24RA	25.0	500	
FE1000-24NA	50.0	1000	
FE1000-24RA	50.0	1000	
FE1500-24NA	75.0	1500	
FE1500-24RA	75.0	1500	
FE2000-24NA	91.0	2000	
FE2000-24RA	91.0	2000	
FE0500-48NA	11	500	48V (40-58)
FE0500-48RA	11	500	
FE1000-48NA	21	1000	
FE1000-48RA	21	1000	
FE1500-48NA	32	1500	
FE1500-48RA	32	1500	
FE2000-48NA	42	2000	
FE2000-48RA	42	2000	

¹ Redundant, or-ing diodes included in this model.

Racking Systems

MODEL	ODULES 1500/2000W	MAXIMUM NUMBER OF 1000W	500W
FE4K-X*			8
FE4K-N*			7
FE4K-L*-24			5
FE4K-L*-48			5
FE5K-X*		5	
FE5K-N*		4	
FE5K-L*-24		3	
FE5K-L*-48		3	
FE6K-X*	3		
FE6K-N*	3		
FE6K-L*-24	2		
FE6K-L*-48	2		

^{*} Specify **N** for NEBS/Telcom (24"), or **E** for EIA (19")

EIA Mounting Flanges are located at the front of the Rack.
Telecom mounting flanges are center mounted per Belicore NEBS requirements.

Filler panels are available, please contact factory for details.



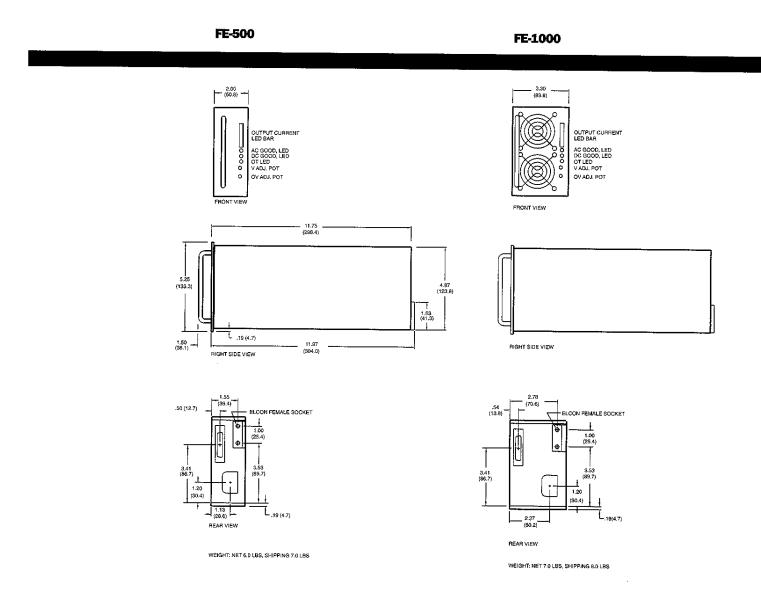






FE Series

Compact, rack-mountable rectifiers





FE-1500/2000

FE RACK

