

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 Bellcore 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.

Similar products

JFS PD600 WLR2800 Chassis Mount Convection Cooled Higher Power Page

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AC Input	85-265VAC, 47-63Hz for FE0500, FE1000 & FE1500.	pr FE0500, FE1000 & FE1500. Individual Modules			
	170-265VAC, 47-63Hz for FE2000.	OUTPUT (ADJ)	POWER (W)	MAX CURRENT (A)	MODEL
Efficiency	79% typical for 50-100% load without isolation diodes.				
Power Factor Correction	0.95 minimum at full load. Compliant to EN60555-2.	24V (20-29)	500 500	25.0	FE0500-24NA
Hot Maintenance	Unit is capable of being inserted and extracted with all operational voltages present, with or without Or-ing diode option.		500 1000	25.0 50.0	FE0500-24RA FE1000-24NA
Surge Current Capability	±10% of max. unit load from 10% to 100% load. Current sharing is accomplished via a single wire connection.		1000	50.0	FE1000-24RA
Surge Immunity	IEC-1000-5 Level 3 Standard. IEC-1000-5 Level 4, with external MOV's. EN61000-4 (-2,-3,-4,-5,-6,)		1500 1500	75.0 75.0	FE1500-24NA FE1500-24RA
			2000	91.0	FE2000-24NA
Conducted EMI	Module/"X" Rack System: FCC-CFR Part 15, Class A. EN55022 Class A , for conducted & radiated emissions.		2000	91.0	FE2000-24RA
	"L" & "N" Rack Systems: FCC-CFR Part 15, Class B and, EN55032, Class B far Candudted, ECC OFB Part 15, Class	48V (40-58)	500	11	FE0500-48NA
	EN55022, Class B for Conducted, FCC-CFR Part 15, Class A and EN55022 Class A for radiated emissions.		500	11	FE0500-48RA
Conducted Battery Noise	Bellcore TR-NWT-001089, TR-TSY000947, Cispr 22		1000	21	FE1000-48NA
conducted battery hoise	Phosphometric Noise.		1000	21	FE1000-48RA1
Line Regulation	1.0% from no load to full load. 85-265VAC (170-265VAC for FE2000).		1500	32	FE1500-48NA
			1500	32	FE1500-48RA
Ripple and Noise	250mV pk-pk max on 24V model. 500mV pk-pk on 48V model. EIAJ RC-9002A procedure (20Mhz bandwidth limit).		2000 2000	42 42	FE2000-48NA FE2000-48RA1
Auxiliary Bias Supply	12VDC at 50mA.	¹ Redundant, or-ing diodes included in this model.			
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.	Racking Systems MAXIMUM NUMBER OF MODULES			
Overvoitage Protection	Adjustable non-latching unit shutdown.				
	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.	500W	1000W	1500/2000W	MODEL
		8			FE4K-X*
· ·	-40°C to +70°C ambient. (-40°C requires 30 min. warmup; 50°C to 70°C, derating required.	7			FE4K-N*
		5			FE4K-L*-24
Storage Temperature		5			FE4K-L*-48
Humidity	0 to 95% (non-condensing).		5		FE5K-X*
Temperature Drift	±2% over the entire temperature range and life.		4		FE5K-N*
Isolation	Input to Chassis –1.5K VAC, Input to Output – 3.0K VAC. Output to Chassis –500 VDC.		3		
			-		FE5K-L*-24
Vibration and Shook	NEBS rack system compliant with Bellcore GR-63-CORE,		3		FE5K-L*-48
TININGUI AIQ GAUGA	ZONE 4, Upper Level.			3	FE6K-X*

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 cutput 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.

* 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 Bellcore NEBS requirements.

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Filler panels are available, please contact factory for details.

FE6K-N*

FE6K-L*-24

FE6K-L*-48

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Safety Agency Approval UL1950, IEC950, EN 60950, CSA 22.2-234, CE MARK (LVD) Warranty 2 years.

Compact, rack-mountable rectifiers



FE-1500/2000





REAR VIEW

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WEIGHT: NET 9.0 L8S, SHIPPING 10.0 LBS