

EF200 Series

200 Watt 1U/High Density Power Supply

PRODUCT DESCRIPTION

The EF Series of switching power supplies utilizes advanced component and circuit technologies to deliver the industry's smallest 200 Watt switcher. Built to meet 1U height considerations, the U-Frame package measures only 3.30 x 5.00 x 1.50". All models offer universal AC input (85-265 VAC) with active power factor correction (PFC), optional 48 VDC input, flexible output configurations and compliance to worldwide safety and EMC standards. Features include:

- 200W compact high-density models
- Active load current share
- Universal AC input with PFC
- Ruggedized U-Channel construction
- 48VDC input models available
- RoHS compliant
- Includes OR-ing diode for N+1 parallel operation
- International regulatory approvals

INPUT

AC Input Voltage	90-264VAC, 47-63Hz
Input Inrush Current	< 50Amp@230VAC (Cold Start)
Input Reflected Ripple	FCC 68 part 15 Class B with External line filter
Power Factor Correction	0.90 at 110VAC/ 0.95 at 220VAC (typical)
Input Line Protection	4A 250VAC IEC Type
Hold-up Time	16mSec.@ Full Load

OUTPUT

Line Regulation	$\pm 0.2\%$ for V_{in} (min.) to V_{in} (max.)
Transient Response	Better than 5% For 50% Step Load
Over-Voltage Protection	125% Typical Latched Shut-down
Load Regulation (V1 & V2)	$\pm 0.51\%$ Max
Min. Load Requirement	None
Turn-On Delay	2 Sec. Max.
Initial Setting Accuracy	$\pm 1\%$
Ripple @ Noise (V1)	$\pm 1\%$
Overload Protection (V1 & V2)	120-130% Typical of Max Output Load

ENVIRONMENTAL

Operation Temperature	-5C to +50C. De-rate of 2.5% per 1Deg. C up to +71C
Temperature Protection	Shutdown (Internal Heat-Sink Temp. >90C), Auto recovery
Storage Temperature	-25C to +85C
Cooling	Forced Air Cooling 250LFM
Humidity	Up to 95% RH Non-condensing
Shock & Vibration	0.75G Peak 5Hz - 500Hz
MTBF	>300,000 Hours

STATUS & CONTROL

Remote Inhibit	ACTIVE Low-output shut down
Power OK	Option (replaces Inhibit function)

ELECTROMAGNETIC COMPATIBILITY

Electrostatic Discharge	EN61000-4-2, ± 4 KV Contact / ± 8 KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2 KV
Surges	EN61000-4-5, ± 2 KV Line-Earth, ± 1 KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Fluctuations & Flicker	EN61000-3-3

SAFETY & EMISSIONS

Safety Approvals	CSA/US 60950-1
	VDE EN60950
	CE Mark (LVD)

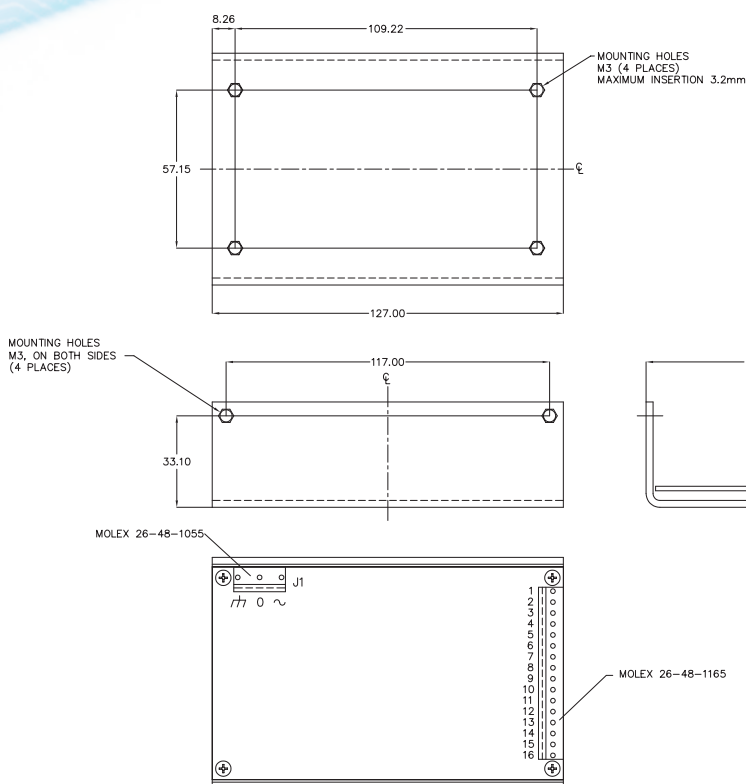


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Model Selection Guide

Model	Input	Output Power	V1 Output	V2 Output	V3 Output	V4 Output	Efficiency (Typical)
EF200-433	90-264VAC	200 Watts	+5/15A	+3.3/15A	+12V/3.5A	-12V/1.5A	82-85%



J1 PINOUT

1	GND
3	NEUTRAL
5	PHASE

J2 PINOUT

1	RTNV
2	RTNV
3	RTNV
4	+5V
5	+5V
6	+5V
7	+3.3V
8	+3.3V
9	+3.3V
10	RTN
11	RTN
12	RTN
13	RTN
14	+12V
15	DC FAIL/INHIBIT
16	-12V

MATING CONNECTOR FOR "J1"
CRIMP TERMINAL 08-52-0113 (x3)
HOUSING 09-50-3051 (x1)

MATING CONNECTOR FOR "J2"
CRIMP TERMINAL 08-52-0113 (x2)
HOUSING 09-50-3021 (x1)

Revision A: 3/23/09 All specifications subject to change. Please consult Digital Power for latest specifications.