

NEW • UNIVERSAL INPUT • POWER FACTOR CORRECTION

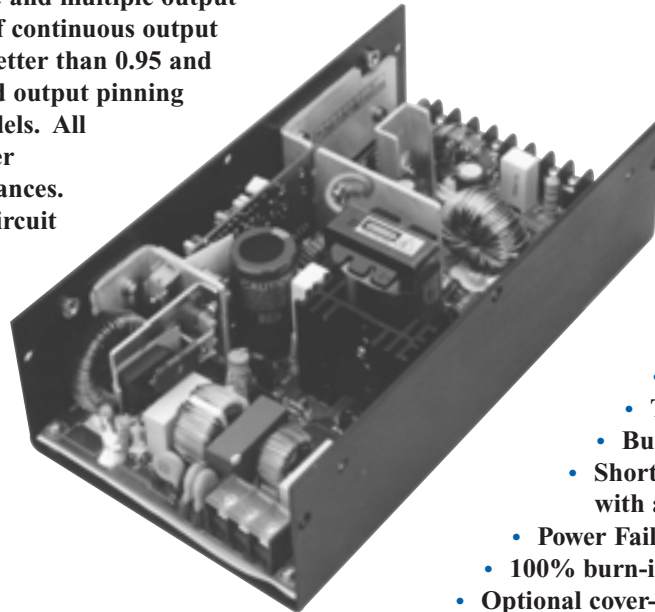
200 WATT

SWITCHING POWER SUPPLY



DESCRIPTION

The IFC200 Series is comprised of single and multiple output models capable of delivering 200 watts of continuous output power. All models have a power factor better than 0.95 and have the same mechanical dimension and output pinning as their corresponding PU200 series models. All auxiliary outputs have magnetic amplifier regulators to maintain tight output tolerances. The units are constructed on a printed circuit board with a U-bracket for mechanical support and heat sinking. A cover-and-fan assembly is optional. All models meet CISPR22 and FCC Class B emission limits, and are approved to UL, CSA, and, TUV safety standards.



FEATURES

- EN61000-3-2, 3 compliant
- True “universal” input
- Built-in EMI filter
- Short circuit protection with auto-recovery
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Optional cover-and-fan assembly
- Small size 9.0”x 5.0”x 2.55”

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output #1				Output #2 ²				Output #3				Output #4 ³				Maximum Output Power ⁴
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
IFC200-10	5V	3A	40A	2%			N/A				N/A				N/A		200W
IFC200-12	12V	1.2A	16.7A	2%			N/A				N/A				N/A		200W
IFC200-13	15V	1.0A	13.4A	2%			N/A				N/A				N/A		200W
IFC200-14	24V	0.6A	8.4A	2%			N/A				N/A				N/A		200W
IFC200-16	30V	0.5A	6.7A	2%			N/A				N/A				N/A		200W
IFC200-18	48V	0.5A	4.2A	2%			N/A				N/A				N/A		200W
IFC200-23	+5V	3A	30A	2%	+12V	0A	8A	4%			N/A				N/A		200W
IFC200-24	+5V	3A	30A	2%	+15V	0A	6A	4%			N/A				N/A		200W
IFC200-25	+5V	3A	30A	2%	+24V	0A	4A	4%			N/A				N/A		200W
IFC200-30	+5V	3A	30A	2%	+12V	0A	8A	4%	-5V	0A	6A	4%			N/A		200W
IFC200-31	+5V	3A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%			N/A		200W
IFC200-32	+5V	3A	30A	2%	+15V	0A	6A	4%	-15V	0A	4A	4%			N/A		200W
IFC200-33	+5V	3A	30A	2%	+15V	0A	6A	4%	-12V	0A	4A	4%			N/A		200W
IFC200-40	+5V	3A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	F 5V	0A	6A	4%	200W
IFC200-41	+5V	3A	30A	2%	+15V	0A	6A	4%	-15V	0A	4A	4%	F 24V	0A	4A	4%	200W
IFC200-42	+5V	3A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	F 12V	0A	4A	4%	200W
IFC200-44	+5V	3A	30A	2%	+12V	0A	8A	4%	-15V	0A	4A	4%	F 15V	0A	4A	4%	200W
IFC200-45	+5V	3A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	F 24V	0A	4A	4%	200W

NOTE: (1) Add suffix "B" for U-bracket or "C" for enclosed i.e. IFC200-45C.
(2) On Output #2 peak current is 12A on +12V, 9A on +15 V and 6A on +24V.
(3) Output #4 is floating. It can be connected externally for positive or negative output.
(4) 200 watts for "C" version with a cover-and-fan assembly. 150 watts for "B" version without moving air (maximum current of output #1 & #2 derated to 70%), or 200 watts with 25 CFM forced air provided by user.

All specifications are typical at nominal line, full load, and 25°C.

INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	3.6A (rms) for 115 VAC 1.8A (rms) for 230 VAC

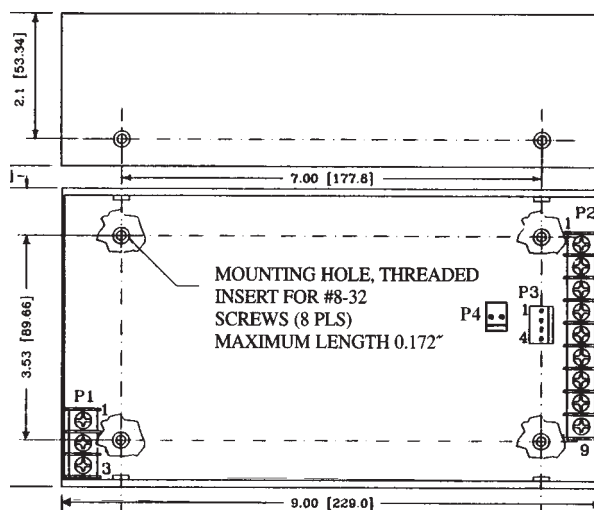
Output voltage:	See Rating Chart
Output current:	See Rating Chart
Output power range:	See Note #4 on rating chart
Ripple and noise:	2% peak to peak maximum
Overvoltage protection:	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent protection:	All outputs protected to short circuit conditions
Temperature coefficient:	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response:	Maximum excursion of 4% or better on all models recovering to 1% of final value within 500 μs after a 25% step load change
Cooling:	25 CFM forced air provided on "C" version; to be provided by user on "B" version.

* Derate linearly from 100% load at 50°C to 50% load at 70°C

NOTES:

1. Dimensions shown in inches [mm]
2. Tolerance 0.02 [0.5] maximum
3. Input connector P1 is Beau Inc. P/N 72-5-03C, output connector P2 is Beau Inc. P/N 72-5-09C. Screws are #6-32 on 0.375 inch centers.
4. Connector P3 mates with Molex housing 22-01-1043 and Molex 40445 series crimp terminal.
5. Connector P4 mates with Molex housing 22-01-1023 and Molex 40445 series crimp terminal.
6. Connector P4 is for DC fan rated 24V/ 0.12A (models IFC200-14,-16,-25) or 12V/ 0.2A (other models).
7. Weight:
 - 2.8 Lbs. (1.25 Kgs) approx. for "B" version.
 - 3.3 Lbs. (1.5 Kgs) approx. for "C" version.

P1
1-Line
2-Neutral
3-Ground



PIN CHART		P2					P3				
Model	PIN	1, 2	3, 4, 5	6	7	8	9	1	2	3	4
1FC200-10, 1FC200-12 1FC200-13, 1FC200-14 1FC200-16, 1FC200-18		-SENSE	COM RET.	OUTPUT #1	OUTPUT #1	OUTPUT #1	+SENSE	P.F.D.	COM. RET.	COM. RET.	FAN
1FC200-23, 1FC200-24 1FC200-25		OUTPUT #1	COM. RET.	OUTPUT #2	N.C.	N.C.	N. C.	P.F.D.	COM. RET.	COM. RET.	FAN
1FC200-30, 1FC200-31 1FC200-32, 1FC200-33		OUTPUT #1	COM. RET.	OUTPUT #2	OUTPUT #3	N.C.	N.C.	P.F.D.	COM. RET.	COM. RET.	FAN
1FC200-40, 1FC200-41 1FC200-42, 1FC200-44 1FC200-45		OUTPUT #1	COM. RET.	OUTPUT #2	OUTPUT #3	OUTPUT #4 RETURN	OUTPUT #4	P.F.D.	COM. RET.	COM. RET.	FAN



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