### NEW • UNIVERSAL INPUT • POWER FACTOR CORRECTION

# 200 WATT SWITCHING

POWER SUPPLY

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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-andfan 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 loadOptional cover-and-fan assembly
- Small size 9.0"x 5.0"x 2.55"

#### **OUTPUT VOLTAGE/CURRENT RATINGS CHART**

	Output #1			Output #2 <sup>2</sup>			Output #3			Output #4 <sup>3</sup>				Maximum Output			
Model	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin 1	[max	Tol.	Power <sup>4</sup>
IFC200-10	5V	3A	40A	2%		N/	Ά			N/	А			N/A	A		200W
IFC200-12	12V	1.2A	16.7A	2%		N/	Ά			N/	А			N/A	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	1		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.

#### **GENERAL SPECIFICATIONS**

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

Efficier Hold-up Line reg Inrush o	o time: gulation:	70% minimum on all models 12 msec minimum at 110 VAC input ±0.5% maximum at full load 20 amps at 115 VAC or 40 amps at	Input frequency: Input current:
Withsta	nd voltage:	230 VAC at 25°C cold start 3000 VAC from input to output 1500 VAC from input to ground 500 VAC from output to ground	OUTPUT SPECIFICA Output voltage: Output current:
-	ng temperature: temperature:	0°C to 70°C* -40C° to +85°C 300,000 hours at full load at 25°C ambient; MIL-HDBK-217F	Output power range: Ripple and noise: Overvoltage protection:
EMI red	quirements:	Meets conduction limits of a) CISPR 22 (EN 55022) Level B b) FCC 20780 Level B	Overcurrent protection:
Safety 1	requirements:	Meets or exceeds: a) UL 1950 b) CSA C22.2 No. 234 c) IEC 950 (EN60950)	Temperature coefficient: Transient response:
	Fail Detect: IGNAL)	TTL logic high for normal operation and TTL logic low upon loss of input power. This signal appears at least ImS prior to the main output dropping 5% below its nominal value. This signal also provides a minimum delay of 100	Cooling:
		mS after the main output is within regulation.	* Derate linearly from 100%

#### **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

#### ATIONS

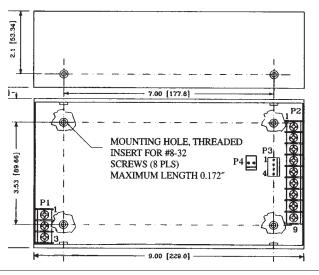
tage:	See Rating Chart
rent:	See Rating Chart
ver range:	See Note #4 on rating chart
noise:	2% peak to peak maximum
ge protection:	Provided on output #l only; set at
	112-132% of its nominal
	output voltage
nt protection:	All outputs protected to short
	circuit conditions
re coefficient:	All outputs ±0.04%/°C maximum
esponse:	Maximum excursion of 4% or
	better on all models recovering to
	1% of final value within 500us after
	a 25% step load change
	25 CFM forced air provided on
	"C" version; to be provided by user
	on "B" version.

% load at 50°C to 50% load at 70°C

#### **MECHANICAL SPECIFICATIONS**

N	DTES:
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

- out 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.
- <u>P1</u> 1-Line 2-Neutral 3-Ground



#### DIN CHART

		Р3								
Model PIN	1, 2	3, 4, 5	6	7	8	9	1	2	3	4
IFC200-10, IFC200-12 IFC200-13, IFC200-14 IFC200-16, IFC200-18	-SENSE	COM RET.	OUTPUT #1	OUTPUT #1	OUTPUT #1	+SENSE	P.F.D.	COM. RET.	COM. RET.	FAN
IFC200-23, IFC200-24 IFC200-25	OUTPUT #1	COM. RET.	OUTPUT #2	N.C.	N.C.	N. C.	P.F.D.	COM. RET.	COM. RET.	FAN
IFC200-30, IFC200-31 IFC200-32, IFC200-33	OUTPUT #1	COM. RET.	OUTPUT #2	OUTPUT #3	N.C.	N.C.	P.F.D.	COM. RET.	COM. RET.	FAN
IFC200-40, IFC200-41 IFC200-42, IFC200-44 IFC200-45	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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