

NEW • UNIVERSAL INPUT
• POWER FACTOR CORRECTION

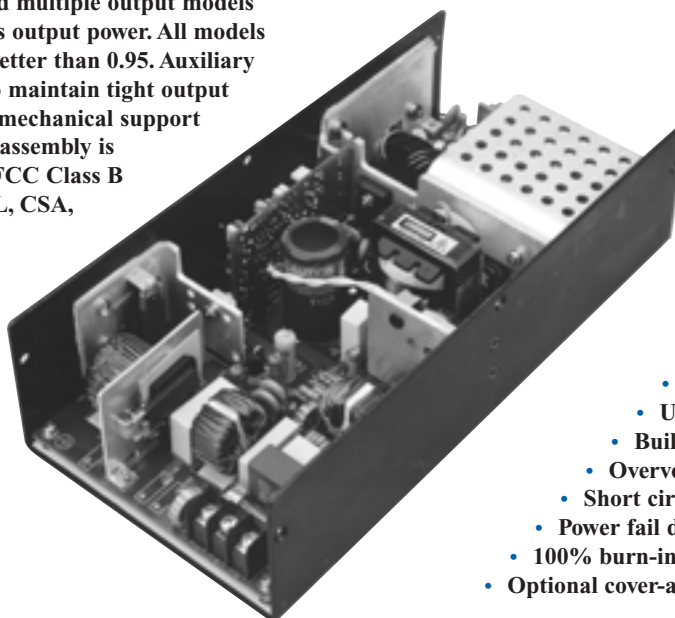
350 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The IFC350 Series is comprised of single and multiple output models capable of delivering 350 watts of continuous output power. All models have universal input and a power factor of better than 0.95. Auxiliary outputs use magnetic amplifier regulators to maintain tight output tolerances. U-bracket construction provides mechanical support and heat sinking. An optional cover-and-fan assembly is available. All models to meet CISPR22 and FCC Class B emission limits, and comply are approved UL, CSA, and TUV safety standards and carry the CE mark.



FEATURES

- EN61000-3-2, 3 compliant
- Universal Input
- Built-in EMI filter
- Overvoltage and thermal protection
- Short circuit protection with auto-recovery
- Power fail detection (PFD) signal
- 100% burn-in at full rated load
- Optional cover-and-fan assembly

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output #1				Output #2 ³				Output #3				Output #4 ⁴				Maximum Output Power ¹
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
IFC350-10	5.1V	1.0A	54.0A	2%													275W
IFC350-12	12V	0.5A	29.2A	2%													350W
IFC350-13	15V	0.4A	23.4A	2%													350W
IFC350-14	24V	0.3A	14.6A	2%													350W
IFC350-16	30V	0.2A	11.7A	2%													350W
IFC350-18	48V	0.1A	7.3A	2%													350W
IFC350-23	5.1V	5.0A	40A	2%	+12V	0A	9A	4%									300W
IFC350-24	5.1V	5.0A	40A	2%	+15V	0A	8A	4%									300W
IFC350-25	5.1V	5.0A	40A	2%	+24V	0A	4.5A	4%									300W
IFC350-30	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-5V	0A	6A	4%					300W
IFC350-31	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-12V	0A	4A	4%					350W
IFC350-32	5.1V	5.0A	40A	2%	+15V	0A	8A	4%	-15V	0A	4A	4%					350W
IFC350-33	5.1V	5.0A	40A	2%	+15V	0A	8A	4%	-12V	0A	4A	4%					350W
IFC350-40	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-12V	0A	4A	4%	F 5V	0A	6A	4%	350W
IFC350-41	5.1V	5.0A	40A	2%	+15V	0A	8A	4%	-15V	0A	4A	4%	F 24V	0A	4A	4%	350W
IFC350-42	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-12V	0A	4A	4%	F 12V	0A	4A	4%	350W
IFC350-44	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-15V	0A	4A	4%	F 15V	0A	4A	4%	350W
IFC350-45	5.1V	5.0A	40A	2%	+12V	0A	9A	4%	-12V	0A	4A	4%	F 24V	0A	4A	4%	350W

NOTE: (1) 350 Watts for “C” version with cover and fan. User required to supply 38 CFM forced air for “B” version.
 (2) Add suffix “B” for U-bracket or “C” for enclosed i.e. PFC350-45C.
 (3) On output #2 peak current is 12A on +12V, 9.6A on +15V and 6A on +24V.
 (4) Output #4 is floating. It can be connected externally for positive or negative output.
 (5) Peak output current with 10% maximum duty cycle for less than 60 seconds. Total power must not exceed Maximum Output Power

GENERAL SPECIFICATIONS

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

Power factor:	0.98 typical
Efficiency:	70% minimum
Hold-up time:	12 msec minimum, at 115VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	40A at 115VAC or 80A at 230VAC at 25°C cold start
Withstand voltage:	3000VAC from input to output 1500VAC from input to ground 500VAC from output to ground
Operating temperature:	0°C to +70°C*
Storage temperature:	-40°C to +85°C
Relative humidity:	5% to 95% non-condensing
MTBF:	250,000 hours (MIL-HBK-217D)
EMI requirements:	Meets conduction limits of: (a) CISPR22 (EN 55022) Class B (b) FCC Class B
Safety requirements:	Approved to: (a) UL1950 (b) CSA C22.2 No. 950 (c) IEC 950 (EN60950)
Switching frequency:	76KHz ±8KHz

INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	5.6A (rms) at 115 VAC 2.8A (rms) at 230 VAC

OUTPUT SPECIFICATIONS

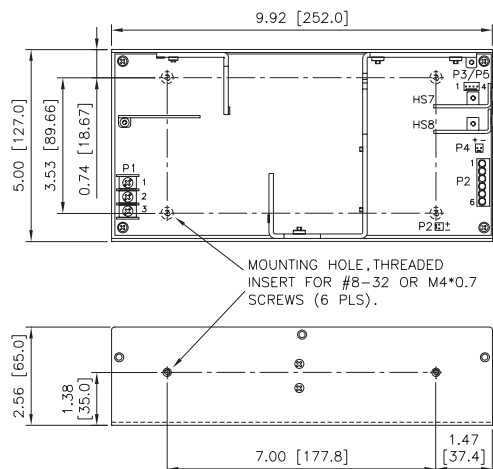
Output voltage:	See Rating Chart
Output current:	See Rating Chart
Ripple and noise:	2% peak-peak maximum
Oversvoltage protection:	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent protection:	All outputs protected to short circuit conditions
Power Fail Detect:	TTL logic low upon loss of input power
Temperature coefficient:	All outputs +0.04%/°C maximum
Transient response:	Maximum excursion of 5% , recovering to 1% of final value in less than 500us after a 50% load change

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

MECHANICAL SPECIFICATIONS

NOTES:

- Dimensions shown in inches [mm].
- Tolerance 0.02 (0.5) maximum.
- Input connector P1 is Beau Inc. P/N 72-5-03C with #6-32 screws.
- Main output studs HS7 and HS8 use M5 x 0.8 screws.
- P3 (single output) / P5 (multi output) mates with Molex housing 22-01-1043 and Molex 40445 series crimp terminals.
- Single Output Models: P2 (2 pin) is for DC fan rated 24V/0.12A (models IFC350-14 & -16) or 12V/0.22A for other models. P2 (6 pin) and P4 are not present on PCB.
- Multiple Output Models: P2 (6 pin) is Dinkle P/N 166-06P. P4 is for DC fan rated 24V/0.12A (model IFC350-25) or 12V/0.22A for other models. P2 (2 pin) is not present on PCB.
- Weight: 3.1 Lbs (1.4 Kgs) approx. for "B" version 3.9 Lbs (1.75 Kgs) approx. for "C" version



PIN CHART Single Output Models

Connector Pin	P1			P3				HS7	HS8
	1	2	3	1	2	3	4		
IFC350-10	AC Line	AC Neutral	AC Ground	Return	PFD	-Sense	+Sense	Output #1 Return	Output #1
IFC350-12, IFC350-13 IFC350-14, IFC350-16 IFC350-18	AC Line	AC Neutral	AC Ground	Return	NC	-Sense	+Sense	Output #1 Return	Output #1

PIN CHART Multiple Output Models – Includes P1 from above chart

Connector Pin	P2					P5				HS7	HS8
	1	2,3	4	5	6	1	2	3	4		
IFC350-23, IFC350-24 IFC350-25	Output #2	COM. RET.	N/C	N/C	N/C	COM. RET.	PFD	-Sense	+Sense	Output #1	Output #1 Return
IFC350-30, IFC350-31 IFC350-32, IFC350-33	Output #2	COM. RET.	Output #3	N/C	N/C	COM. RET.	PFD	-Sense	+Sense		
IFC350-40, IFC350-41 IFC350-42, IFC350-44 IFC350-45	Output #2	COM. RET.	Output #3	Output #4	Output #4 Return	COM. RET.	PFD	-Sense	+Sense		



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