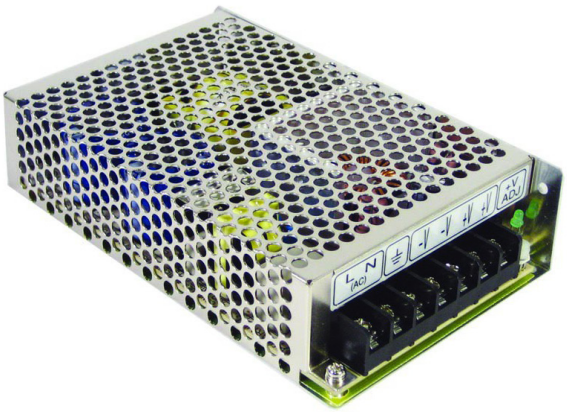
Fuente alimentación/ *Power supply*

FAI

100



Fuente de alimentación de tensión constante solo para uso industrial.
Funciona desde 88 ~ 264VAC.
Consigue una alta eficiencia sin ventilador, hasta un 84%, gracias a un diseño optimizado y es capaz de funcionar desde -25ºC ~ +70ºC.

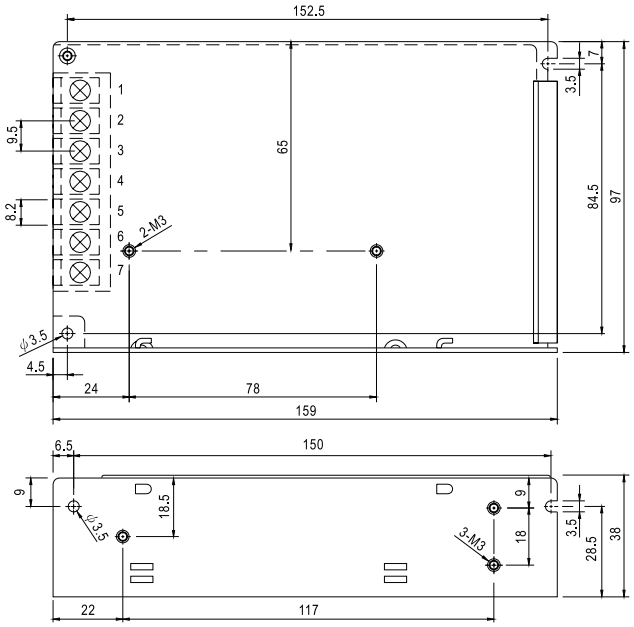
Constant current power supply for industrial use only. Operates from 88 ~ 264VAC.
It achieves high efficiency without fan, up to 84% thanks to an optimized design and is capable of operating from -25ºC ~ +70ºC.

IP20

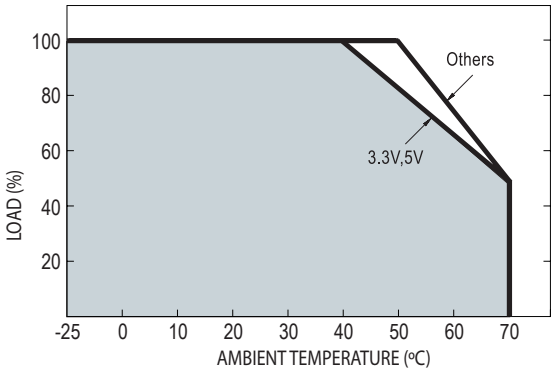
12-24 V DC

CB

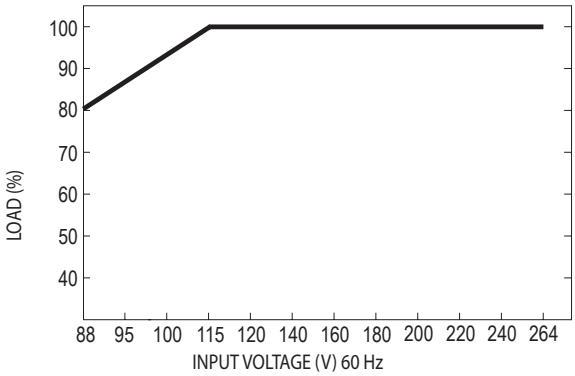
- **Medidas** / *Dimensions*



- **Curva de reducción** / *Derating curve*



- **Disminución salida vs entrada voltaje**
  Output derating vs Input voltage



• **Características** / *Characteristics*

MODEL		FI100-12	FI100-24
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	8.5A	4.5A
	CURRENT RANGE	0 ~ 8.5A	0 ~ 4.5A
	RATED POWER	102W	108W
	RIPPLE & NOISE (max.) (2)	120mVp-p	
	VOLTAGE ADJ. TOLERANCE	11.4 ~ 13.2A	22.8 ~ 26.4A
	VOLTAGE TOLERANCE (3)	±1.0%	
	LINE REGULATION (4)	±0.5%	
	LOAD REGULATION (5)	±0.5%	
	SETUP, RISE TIME	500ms, 20ms / 230VAC 1200ms, 30ms / 115VAC at full load	
	HOLD UP TIME (Typ.)	95ms / 230VAC 17ms / 115VAC at full load	
INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	81%	84%
	AC CURRENT (Typ.)	2.5A / 115 VAC 1.5A / 230VAC	
	INRUSH CURRENT (Typ.)	COLD START 40A / 230VAC	
	LEAKAGE CURRENT	< 2mA / 240 VAC	
PROTECTION	OVERLOAD	110 ~ 150% rated output power	
		Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	OVERVOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V
		Protection type: Hiccup mode, recovers automatically after fault condition is removed	
ENVIRONMENT	WORKING TEMP.	-25 ~ +70ºC (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85ºC, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/ºC (0 ~ 50ºC)	
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004, approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG :100M Ohms / 500VDC / 25ºC / 70% RH	
	EMC EMISSION	Compliance to EN55032 (CISPR22) Class B, EN61000-3-2 -3, EAC TP TC 020	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020	
OTHERS	MTBF	260.8Khrs min. MIL-HDBK-217F (25ºC)	
	DIMENSION	159*97*38mm (L*W*H)	
	PACKING	0.6Kg; 24pcs/15.4Kg/0.7CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25ºC of ambient temperature.
2. Ripple & noise are measured at 20MHz of banswidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
8. The ambient temperature derating of 3.5ºC/1000m with fanless models and of 5ºC/1000m with fan models for operating altitude higher than 2000m(6500ft).