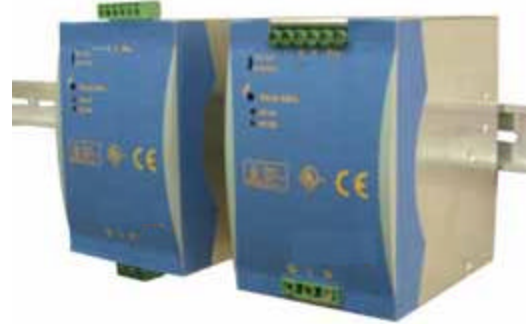


### GENERAL SPECIFICATION

- COMPACT DESIGN
- HIGH EFFICIENCY UP TO 90%
- P.F.C. FUNCTION AVAILABLE (**OPTION**)
- PARALLEL MODELS AVAILABLE (**SWITCH OPTION**)
- INPUT VOLTAGE 115/230VAC AUTO SELECT



### SELECTION CHART

**DINz240---SX-F-P-CF**

\* **Z=A** Screw Terminal

\* **Z=B** Detachable Connector

#### 1) INPUT

Description	Min.	Max.	Condition
Rated Input Voltage(VAC)	115/230VAC(Auto Select)		Io nom
Input voltage range			Ta min...Ta max, Io nom
AC IN(115 VAC Selected)	93	132	
AC IN(230 VAC Selected) DC IN(230 VDC)	86 210	264 370	
Line Frequency(Hz)	47	63	Vi nom, Io nom
Inrush current(A)			Vi nom, Io nom
Vi :115VAC Vi : 230VAC		24 48	
P. F. C. ( <b>optional</b> )	0.7		Vi : 230VAC, Io nom

#### 2) OUTPUT

MODEL NO.	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (typ.)
DINA240-24SX-F-P-CF	+24VDC	10A	89%
DINB240-24SX-F-P-CF	+24VDC	10A	89%
DINA240-48SX-F-P-CF	+48VDC	5A	90%
DINB240-48SX-F-P-CF	+48VDC	5A	90%

<b>Hold up time:</b> (Vi nom, Io nom)	Vi=115 VAC	25mS, min.	
	Vi=230VAC	30mS, min.	
<b>Output voltage accuracy</b> (Vi nom, Io max) (Adjusted before shipment)			-0~+1%
<b>Voltage trim range:</b> (Vi nom, Io nom)	24V models	22.5~28.5VDC	
	48V model	47~56VDC	
<b>Minimum load</b> (Vi nom)			0% min.
<b>Line regulation</b> (Io nom, Vi min ...Vi max)			±0.5% max.
<b>Load regulation</b> (Vi nom, Io min ...Io nom)		single mode	±1% max.
		parallel mode	±5% max.
<b>Ripple and noise:</b> (Vi nom, Io nom,BW = 20MHz)			100max.
<b>Temperature coefficient</b> (Vi nom, Io min)			±0.3%/°C
<b>DC ON indicator</b> (Vi nom, Io nom )			
Threshold at start up	24V models	17.6~19.4VDC	
	48V model	37~43VDC	
<b>DC LOW indicator</b> (Vi nom, Io nom)			
Threshold after start up	24V models	17.6~19.4VDC	
	48V model	37~43VDC	
<b>Isolation voltage</b> (Input/Output)			3000VAC, min.
<b>Isolation resistance:</b> (Input / Output @ 500VDC,min.)			100MΩ,min.
<b>Parallel opration</b>	For parallel models only		3 unit, max.

### 3) ENVIRONMENT (Operating at Vi nom, Io nom):

<i>Operating Temperature(70 to 100%)</i>	-10°C to +50°C
<i>Derating(+51 to +71°C)</i>	1.5% / °C, max.
<i>Storage Temperature</i>	-25°C to +85°C
<i>Relative humidity</i>	20~95 % R H
<i>Cooling</i>	Free-air convection
<i>MTBF</i>	According to MIL-HDBK-217F, GF40 200,000 Hrs, typ.

### 4) MECHANICAL DRAWING

Case Material.....	Metal
Dimensions(mm):	
Screw terminal type.....	L125 x W83 x D126
Detachable connector type.....	..L142 x W83 x D126

### 5) CONTROL AND PROTECTION

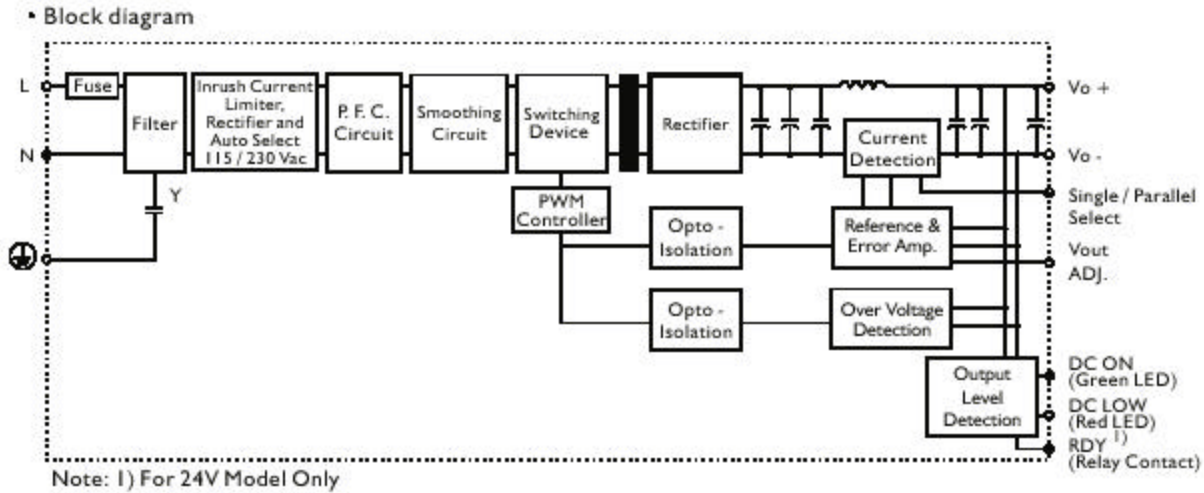
Input fuse	T6.3A / 250VAC internal
Rated over load protection(Vi nom)	105% ~ 145%
Output short circuit(Vi nom, Io nom)	Current Limited
Power Rdy (24V model only) (Threshold)	
Threshold voltage of contact closed(at start up)	17.6~19.4 VDC
Electrical Isolation	500VDC, min.
Contact rating at 60VDC	0.3A, max.
Over Voltage Protection(Vi nom, Io nom)	120~145%

## 6) APPROVAL AND STANDARDS

All specifications typical at nominal line, full load, 25°C unless otherwise noticed

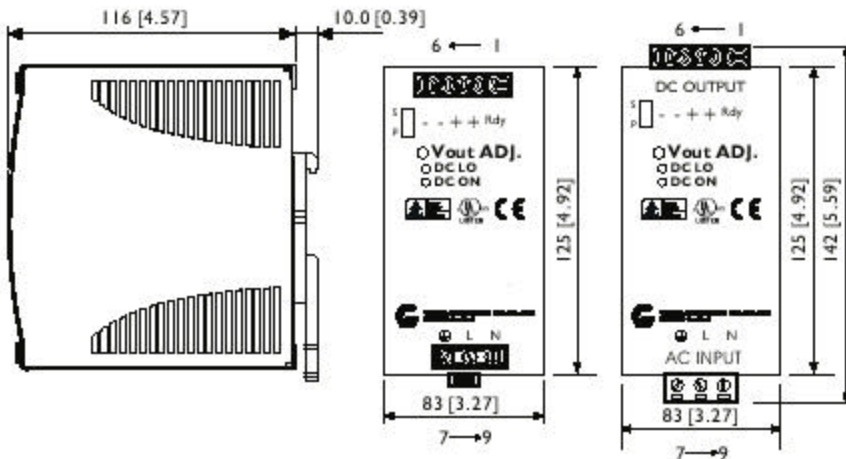
UL / cUL	UL508 Listed
TUV	EN60950
CE	EN61000-6-2 EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

## 7) CIRCUIT SCHEMATIC



## 8) MECHANISM & PIN CONFIGURATION

mm [inch]



### CONSTRUCTION

Easy snap-on mounting onto the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail.

### INSTALLATION

- Ventilation / Cooling
  - Normal convection
  - Above/below 25m/m free space
  - For cooling recommended
- Connector size range
- Screw terminal:
  - 10-24AWG flexible / solid cable,
  - 8 m/m stripping at cable end recommends
- Detachable connector:
  - 14-24AWG flexible / solid cable,
  - 7 m/m stripping at cable end recommends

## 9) PHYSICAL CHARACTERISTICS


CASE SIZE

SCREW TERMINAL TYPE..... 125 x 83 x 126 mm 4.92 x 3.27 x 4.96 inches

DETACHABLE CONNECTOR TYPE..... 142 x 83 x 126 mm 5.59 x 3.27 x 4.96 inches

WEIGHT .....1000 g

## 10) PIN ASSIGNMENT

PIN NO.		Designation	Description
1	OUT	RDY	A normal open relay contact for DC ON level control (Never connect except 24V model)
2			
3		V +	Positive output terminal
4		V +	Positive output terminal
5		V -	Negative output terminal
6		V -	Negative output terminal
7	IN		Ground this terminal to minimize high-frequency emissions
8		L	Input terminals (phase conductor, no polarity at DC input)
9		N	Input terminals (neutral conductor, no polarity at DC input)
	OTHER	DC ON	Operation indicator LED
		DC LO	DC LOW voltage indicator LED
		V <sub>out</sub> ADJ.	Trimmer-potentiometer for V <sub>out</sub> adjustment
		S / P	Single / Parallel select switch

## 11) DERATING CURVE

