

### GENERAL SPECIFICATION

- AC/DC POWER MODULE
- UNIVERSAL INPUT 90~265VAC
- HIGH EFFICIENCY UP TO 86%
- SHORT CIRCUIT PROTECTION
- INTERNAL INPUT FILTER



Spring Type



Screw Type

### 1) INPUT

Description	Min.	Max.	Condition
Rated Input Voltage(VAC)	100	240	Io nom
Input Voltage Range AC IN(VAC) DC IN(VDC)	90 120	265 370	Ta min...Ta max., Io nom
Line Frequency(Hz)	47	63	Vi nom, Io nom
Inrush Current(A) Vi :115VAC Vi : 230VAC		21 42	Io nom

### 2) OUTPUT

MODEL NO.		OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (typ.)
Spring Type	Screw Type			
DIN60-05SX-CF	DINA60-05SX-CF	+5VDC	10000mA	78~80%
DIN60-12SX-CF	DINA60-12SX-CF	+12VDC	5000mA	80~84%
DIN60-24SX-CF	DINA60-24SX-CF	+24VDC	2500mA	84~86%
DIN60-48SX-CF	DINA60-48SX-CF	+48VDC	1250mA	83~86%

Hold up time:(Io nom)

Vi=115 VAC 20mS, min.

Vi=230VAC 75mS, min.

Output voltage accuracy (Vi nom, Io min~Io nom)

±2% max.

Voltage trim range:(Vi nom, Io nom)

5V model 5~5.5VDC  
12V model 12~14VDC  
24V models 24~28VDC  
48V model 44~55VDC

Minimum load:(Vi nom)

0% min.

Line regulation (Io nom, Vi min ...Vi max)

±1% max.

Load regulation :(Vi nom, Io min ...Io nom)

±2% max.

<b>Transient recovery time:</b> (50% load, step changed)	300µS typ.
<b>Ripple and noise:</b> (Vi nom, Io nom,BW = 20MHz)	50mV max.
<b>Temperature coefficient:</b> (Vi nom, Io min)	±0.02%/°C
<b>Switching frequency:</b> (typ. Vi nom, Io nom)	50kHz, min.
<b>DC ON indicator</b> (Vi nom, Io nom)	Green LED
<b>Isolation voltage</b> (Input/Output)	3000VAC, min.
<b>Isolation resistance:</b> (Input / Output @ 500VDC,min.)	100MΩ,min.

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

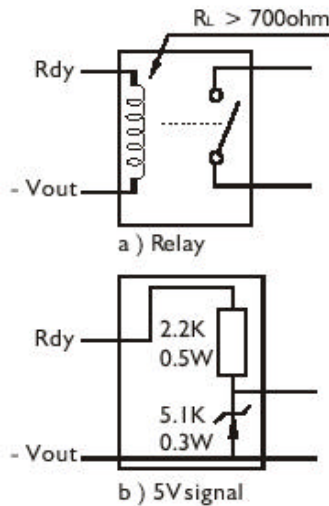
<i>Operating Temperature</i> (70 to 100%)	-10°C to +50°C
<i>Derating</i> (+51 to +71°C)	2% / °C, max.
<i>Storage Temperature</i>	-25°C to +85°C
<i>Relative humidity</i>	90 % R H
<i>Cooling</i>	Free-air convection
<i>MTBF</i>	According to MIL-HDBK-217F, GF40 167,000 Hrs, typ.

**4) MECHANICAL DRAWING**

Case Material..... Plastic  
 Dimensions.....L90 x W40.5 x D115

**5) CONTROL AND PROTECTION**

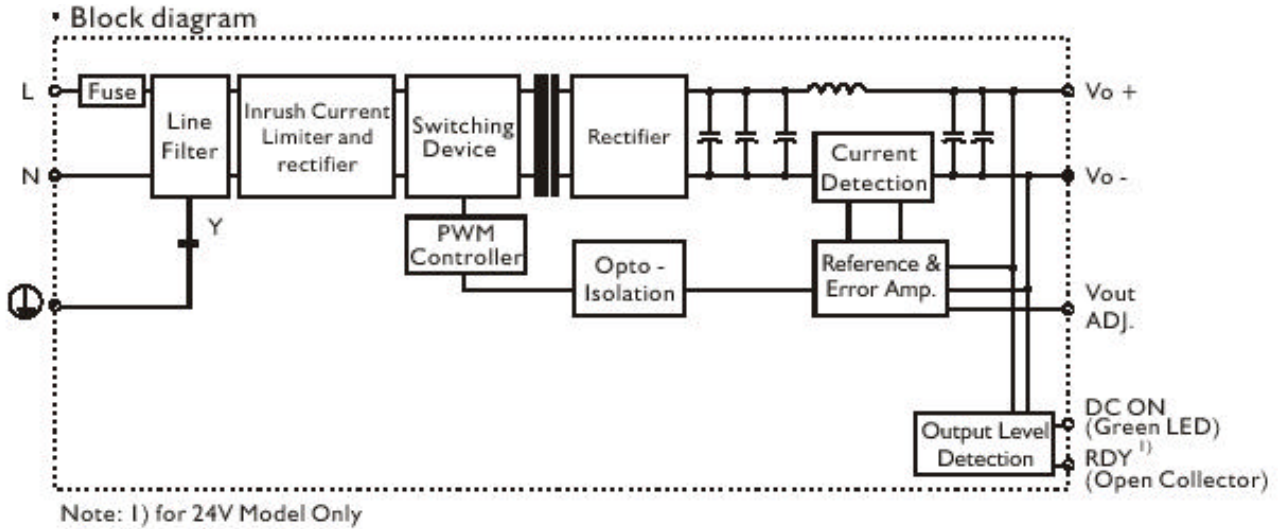
Input fuse	T2A / 250VAC internal
Rated over load protection(Vi nom):	105% ~ 125%
Output short circuit(Vi nom, Io nom)	Hiccup mode
Power Rdy (24V model only) (Threshold)	22vdc, typ.
<b>*Rdy connection:</b>	



**6) APPROVAL AND STANDARDS**

UL / cUL	UL1950, UL1310 Listed, Class 2
TUV	EN60950
CE	EN50081-1 / EN55022 class B for EMI
	EN50082-1 / EN55024 for EMS

## 7) CIRCUIT SCHEMATIC



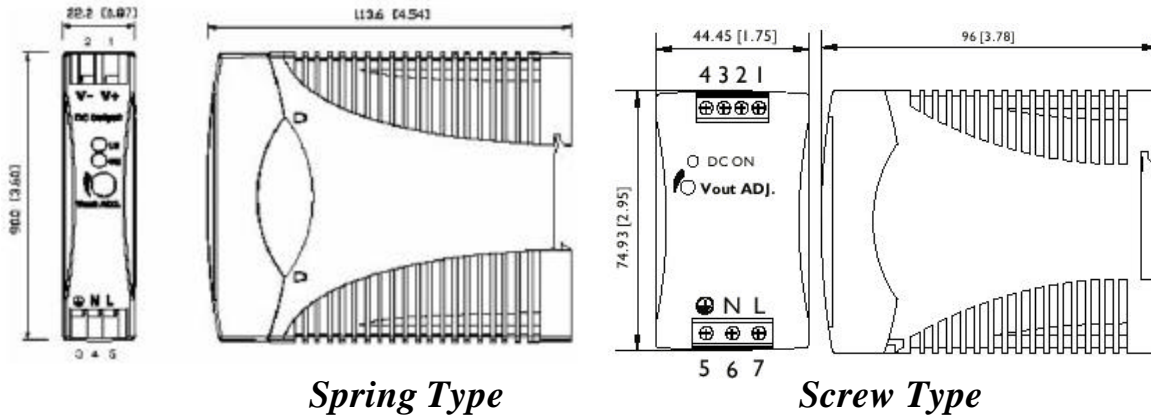
## 8) MECHANISM & PIN CONFIGURATION

### CONSTRUCTION

Easy snap-on mounting onto the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail; tools required even to remove

### INSTALLATION


Ventilation / Cooling  
Normal convection  
Above/below 25mm free space  
For cooling recommended  
Connector size range  
Solid: 0.2-2.0mm (AWG24-14)  
(use copper conductors only)



## 9) PHYSICAL CHARACTERISTICS

CASE SIZE..... 90 x 40.5 x 115 mm 3.6 x 0.89 x 4.53 inches  
 CASE MATERIAL..... Plastic  
 WEIGHT.....360 g

## 10) PIN ASSIGNMENT

PIN NO.		Designation	Description
1	OUT	RDY	DC OK output for relay (not connect except 24V model)
2		+	Positive output terminal
3		+	Positive output terminal
4		-	Negative output terminal
5		-	Negative output terminal
6	IN		Ground this terminal to minimize high-frequency emissions
7		N	Input terminals (neutral conductor, no polarity at DC input)
8		L	Input terminals (phase conductor, no polarity at DC input)
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
		DC ON	Operation indicator LED

## 11) DERATING CURVE

