



- Universal AC input
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation class II
- LED indicator for power on
- UL508 (industrial control equipment) approved



Model Number	Output Volts	Output Amps	Min Load	Efficiency	Ripple and Noise	DC Volt Adjust	OVP
<b>SINGLE OUTPUT</b>							
DR45-5	5 Volts(DC)	5 Amps	0 ~ 5Amps	72%	100mVpk-pk	4.75~5.5V	5.75~6.75V
DR45-12	12 Volts(DC)	3.5 Amps	0 ~3. 5Amps	77%	200mVpk-pk	10.8~13.2V	13.8~16.2V
DR45-15	15 Volts(DC)	2.8 Amps	0 ~ 2.8Amps	77%	240mVpk-pk	13.5~16.5V	17.25~20.25V
DR45 -24	24 Volts(DC)	2 Amps	0 ~ 2Amps	80%	480Vpk-pk	21.6~26.4V	27.6~32.4V

## 45W Single Output Industrial DIN Rail Power Supply

## DR45 series

### INPUT SPECIFICATIONS

Input Voltage Range	90~264VAC / 120-370 Volts (DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	15 Amps @ 115VAC Input 30 Amps @ 230VAC Input
Input Current	28 Amps. @ 115VAC 56 Amps. @ 230VAC
Leakage current	< 1mA / 240VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±1% max
Load Regulation	±1%
Voltage Tolerance (Note 2)	±2%: 5Volts(DC) only ±1%: 12~24Volts(DC)
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	100mS @ 230VAC
Setup, Rise Time @ FL	800ms, 60ms/230VAC
Over Current Protection	105~160% rated output power Constant current limit, auto recover
Over Voltage Protection	See Selection Chart Shut off o/p voltage, auto recover
Over Temperature Protection	Tj 135 °C typ(U1) on heat sink of power transistor, Shut off o/p voltage, auto recover
DC Voltage Adjust	See Selection Chart

### PHYSICAL SPECIFICATIONS

Size	
Millimeters	93 x 78 x 67
Inches	3.66" x 3.07" x 2.64"
Weight	10.93 oz (310g)

### GENERAL SPECIFICATIONS

Safety	UL508 TUV EN60950-1 approved
Insulation Resistance	≥ 100MΩ @ 500VDC
Efficiency	See Selection Chart
EMI	Compliance to EN55011 EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
EMS	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +50°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	0.03% / °C (0-50°C)
MTBF	364.6K Hrs MIL-HDBK-217F(25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes
Mounting:	Compliance to IEC60068-2-6

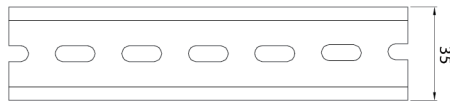
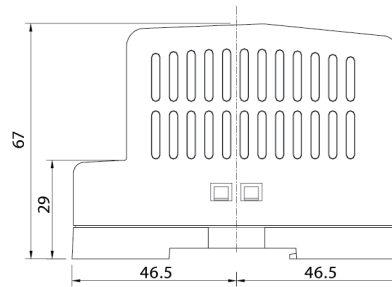
### NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.

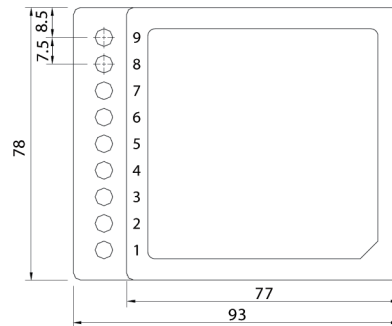
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

### ■ Mechanical Specification

Case No. 918A Unit:mm



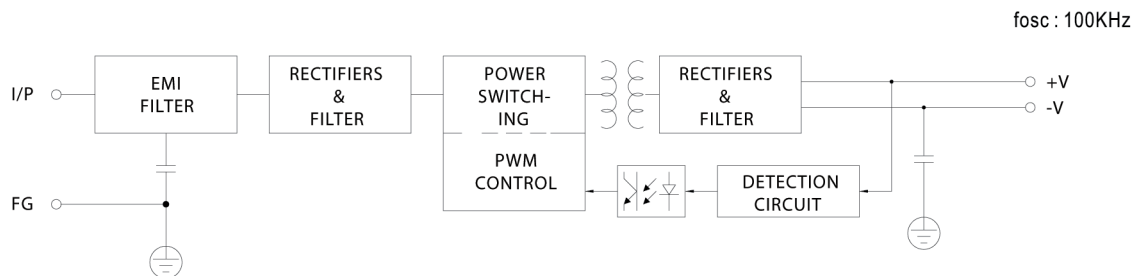
Install DIN rail TS35/7.5 or TS35/15



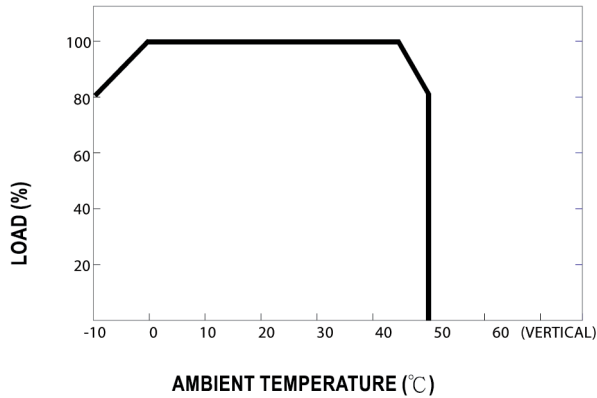
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	6,7	DC OUTPUT+V
2	AC/N	8	LED
3	FG ⊕	9	+V ADJ.
4,5	DC OUTPUT -V		

### ■ Block Diagram



■ Derating Curve



■ Static Characteristics (24V)

