

DRA18 SERIES

AC-DC DIN RAIL MOUNTABLE POWER SUPPLIES

18W UL / cUL / TUV / CE



DRA18 - 05

WATTAGE

05 : 5V OUT
12 : 12V OUT
15 : 15V OUT
24 : 24V OUT

MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (TYP.)	EFF. (MIN.)
Single Output Models						
DRA18-05	90~265 VAC	15 WATTS	+ 5 VDC	3000 mA	73%	71%
DRA18-12	90~265 VAC	18 WATTS	+ 12 VDC	1500 mA	75%	73%
DRA18-15	90~265 VAC	18 WATTS	+ 15 VDC	1200 mA	76%	74%
DRA18-24	90~265 VAC	18 WATTS	+ 24 VDC	750 mA	77%	75%

FEATURES

- * AC/DC DIN RAIL MOUNTABLE POWER SUPPLIES
- * UNIVERSAL INPUT 90~265VAC
- * HIGH EFFICIENCY UP TO 77%
- * SHORT CIRCUIT PROTECTION
- * INTERNAL INPUT FILTER
- * 2 YEARS WARRANTY



CEI
ISO 9001 Certified

SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

GENERAL SPECIFICATION

- * Switching frequency: >100KHz
- * Isolation voltage: 3,000VAC
- * Isolation resistance: 100M Ω (min.)
- * Operating ambient temperature: -10 to +50°C
- * Storage temperature: -25 to +85°C
- * Relative humidity: 20% to 95% RH
- * Cooling: Free air convection
- * Temperature recovery time: 1000 μ S, 50% load step change
- * Temperature coefficient: $\pm 0.2\%$ / °C
- * Dimension: 115 x 90 x 22.5mm

INPUT SPECIFICATIONS

- * Input voltage range / frequency: 90 ~ 265VAC / 47 ~ 63Hz
* Max. Input voltage: 265VAC
* Inrush current: <10A at 110VAC
 <18A at 230VAC

OUTPUT SPECIFICATIONS

- | | |
|----------------------------------|---------------------------|
| * Output voltage accuracy: | ±1% at Vo_nom |
| * Line regulation: | ±2% at Vo_nom |
| * Load regulation: | 100mV (max.) |
| * Ripple & noise: | Up to 77%, see model list |
| * Efficiency: | -10% ~ +15% at Vo_nom |
| * Voltage trim range: | +51 to +71°C, 2%/°C |
| * Derating: | Plastic |
| * Case material: | Green LED |
| * DC ON indicator: | Red LED |
| * DC LOW indicator: | |
| ±1% at Vo_nom | |

CONTROL AND PROTECTION

- * Input fuse: T2A / 250VAC
- * Output short circuit: Hiccup mode
- * Output over load: 110 ~ 135%

APPOVALS AND STANDARD

- UL / cUL: UL508
TUV: EN60950
CE: EN50081-1 / EN55022 for EMI
..... EN50082-1 / EN55024 for EMS
FCC: Class B

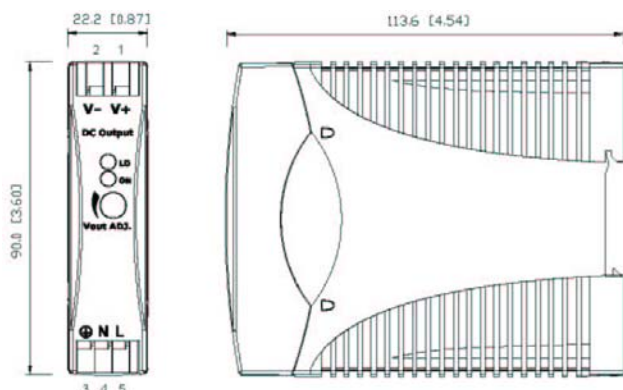
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MECHANISM & PIN CONFIGURATION

mm [inch]



PHYSICAL CHARACTERISTICS

CASE SIZE	115 x 90 x 22.5mm 4.5 x 3.5 x 0.89inch
CASE MATERIAL	Plastic

CONSTRUCTION

Easy snap-on mounting onto the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail; no tools required even to remove

INSTALLATION

Ventilation / Cooling

Normal convection

Above/below 25mm free space

For cooling recommended

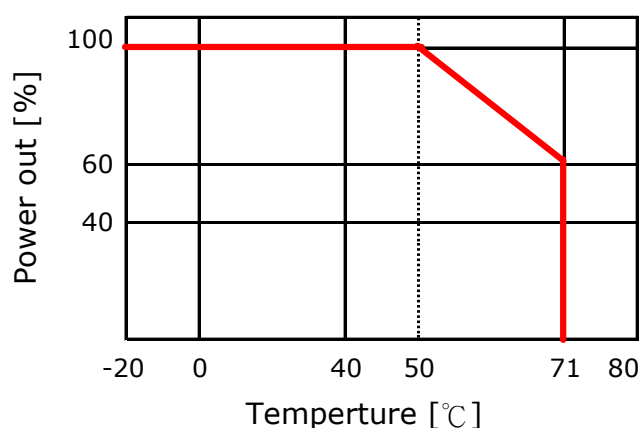
Connector size range

Solid: 0.2-2.0mm² (AWG24-14)

PIN ASSIGNMENT

PIN NO.	Designation		Description
1	OUT	V+	Positive output terminal
2		V-	Negative output terminal
3	IN		Ground this terminal to minimize high-frequency emissions
4		N	Input terminals (neutral conductor, no polarity at DC input)
5		L	Input terminals (phase conductor, no polarity at DC input)
	OTHER	ON	Operation indicator LED
		LO	DC LOW indicator LED
		Vout ADJ.	Potentiometer for Vout adjustment

Derating:



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