

AMDR-20-24



Elcomtech slimline power family are designed with slim plastic housing and for full range AC input from 90VAC to 264VAC.

The series are single phase Psu, providing DC Ok relay contact and adjustable DC output voltage. They have high efficiency and operate in wide temperature range.

The series can widely used for industrial automation & control systems, varied equipments etc.

Features

- | | |
|---|--|
|  universal Ac Input/ Full Range |  Installation on DIN RailTs-35/7.5 & 15 |
|  Dc ok signal output |  Dc output voltage Adjustable |
|  protection: short circuit/ overload/ over voltage |  Three years warranty |
|  Isolation Class I |  Class 2 power unit |

Model Information

Elcomtech Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
AMDR-20-24	24V	0.42A	10W

Input

VOLTAGE RANGE	90-264VAC/127-370VDC
FREQUENCY RANGE	47~ 63Hz
INRUSH CURRENT	35A/115VAC COld start 70A/230VAC COld start
AC CURRENT	0.33A/115VAC 0.21A/230VAC
LEAKAGE CURRENT	<1mA/240VAC
EFFICIENCY	84%

Output

RIPPLE & NOISE	150mVp-p	AMDR-20-24
VOLTAGE ADJ. RANGE	21.6 ~ 26.4V	AMDR-20-24

output

VOLTAGE TOLERANCE	±2.0%
LINE REGULATION	±1.0%
LOAD REGULATION	±5.0%
SETUP, RISE TIME	500ms, 30ms/230VAC at full load 1000ms, 30ms/115VAC at full load
HOLD UPTIME (TYP.)	120ms/230VAC at full load 25ms/115VAC at full load

protection

OVER LOAD	Above 105% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed
OVERVOLTAGE	24V:27.6 ~ 32.4V Protection type : Shutdown o/p voltage, re-power on to recover

Environment

OPERATING TEMPERATURE	-20 °C to 70 °C (Refer to "Derating Curve")
STORAGE TEMP	-40 °C to 85 °C
STORAGE HUMIDITY	10 ~ 95% RH
WORKING HUMIDITY	20% ~ 90% RH Non-Condensing
MTBF	321.7K hrs min. MIL-HDBK-217F(25°C)

SAFETY & EMC

SAFETY REGULATIONS	UL508, BS/EN62368-1 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 / 25°C/ 70% RH
EMC EMISSION	BS EN/EN 55032 class B, BS EN/EN IEC 61000-3-2,3
EMC IMMUNITY	BS EN/EN 61000-4-2,3,4,5,6,8,11

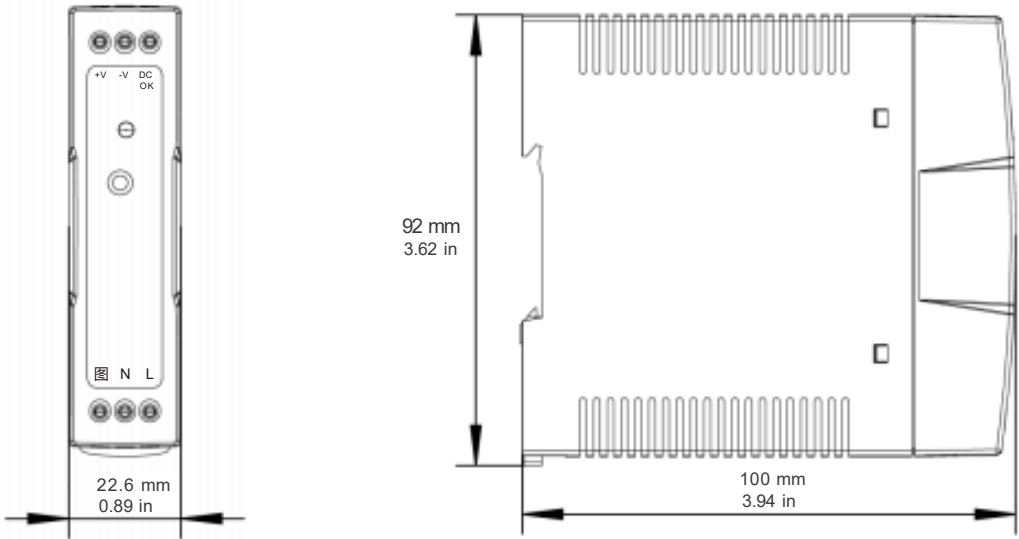
Dimensions &weight

Length:	100mm / 3.94in
width:	22.6mm / 0.89in
Height:	92mm / 3.62in
weight:	140g

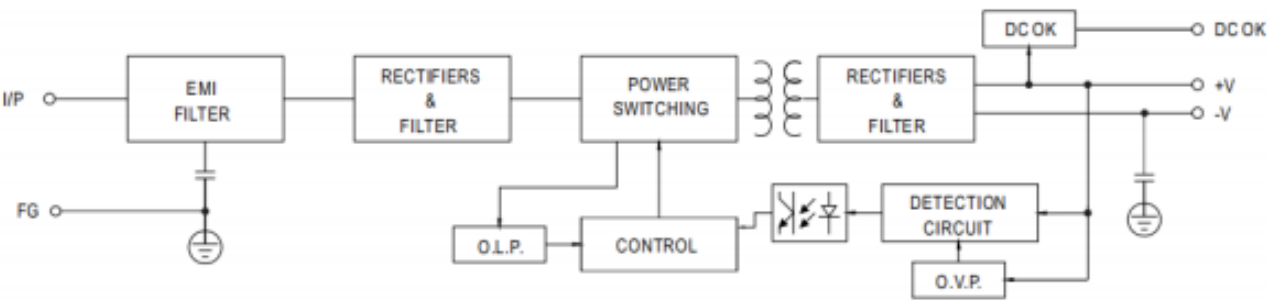
packing

carton size:	54 X 30 X 24 CM
	21.26 X 11.81 X 9.45 in
Master carton Quantities:	100pcs / Carton

Dimensions and Installation

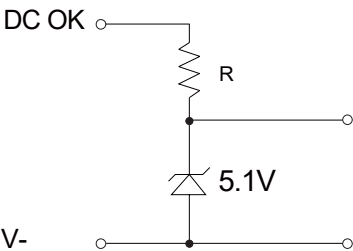


Functional Diagram



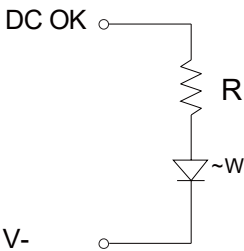
APPLication Of DC OK Active signal

(a) 5V signal



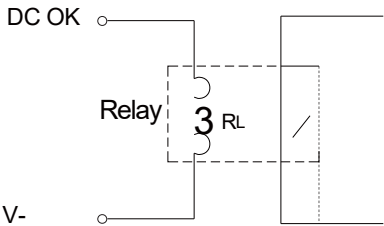
Model	R
5V	$\geq 200\Omega$
12V	$\geq 1.5K\Omega$
15V	$\geq 2K\Omega$
24V	$\geq 3.9K\Omega$

(b) LED



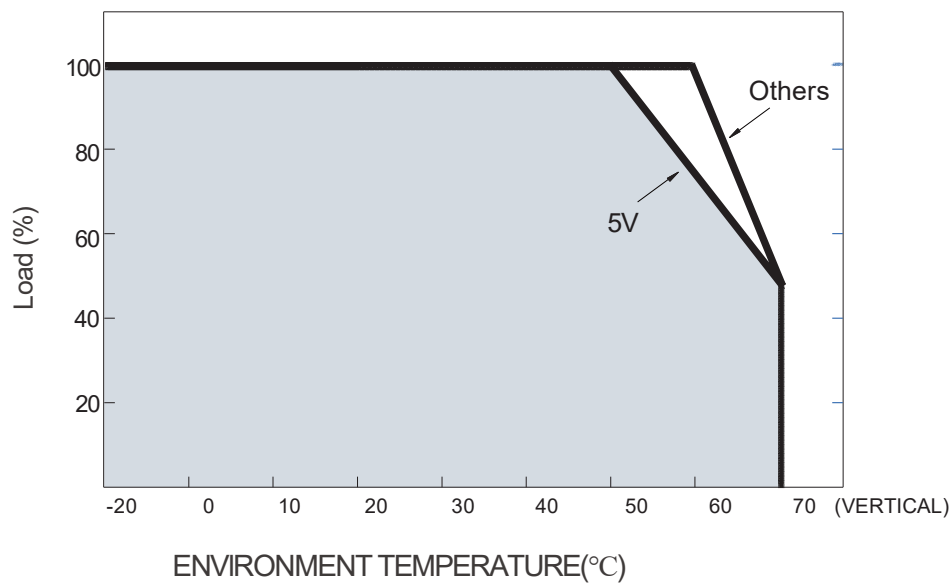
Model	R
5V	$\geq 1K\Omega$
12V	$\geq 2.4K\Omega$
15V	$\geq 3K\Omega$
24V	$\geq 4.7K\Omega$

(c) Relay



Model	RL
5V	$\geq 120\Omega$
12V	$\geq 700\Omega$
15V	$\geq 700\Omega$
24V	$\geq 1.2K\Omega$

Deduction curve and Temperature



Minus Output and Input Voltage curves

