

RISH FLEX-*e* 6024A

Primary Switched Power Supply

Technical Datasheet

Economical Solution for your Power Requirement



UNIVERSAL AC INPUT RANGE 90-264 V

UNIVERSAL DC INPUT RANGE 124-370 V

HIGH EFFICIENCY UPTO 87%

ISOLATION CLASS-II

SUITABLE FOR INDOOR USE

DIN RAIL MOUNTING

EXTREMELY COMPACT PLASTIC ENCLOSURE

COOLING BY FREE AIR CONVECTION



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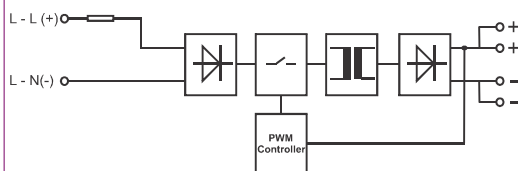
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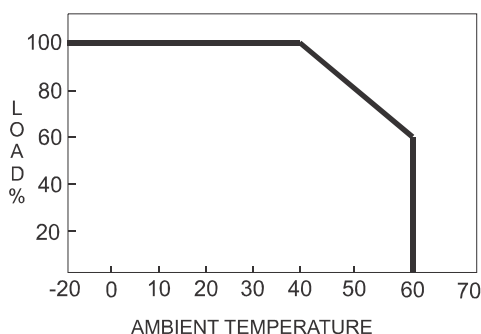
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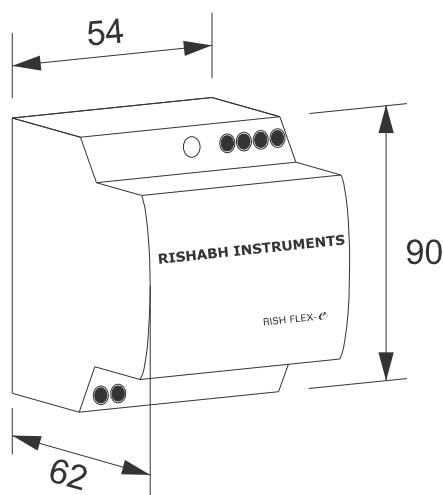
Block diagram:



Temperature derating curve:



Dimensional details:



w x h x d

54 x 90 x 62

all dimensions are in mm

Technical Specifications:

INPUT DATA :

AC input voltage range	90 VAC...264 VAC
DC input voltage range	124 VDC ... 370 VDC
Nominal input voltage	115 VAC / 230 VAC (165 VDC / 325 VDC)
Inrush current	≤ 36 A typical
AC frequency range	45 Hz ... 65 Hz
Input current	1.4 A (115 VAC) , 0.8 A (230 VAC)
Internal fuse	T4 A

External fuse (recommended) 10A (MCB curve B)

OUTPUT DATA :

Nominal output voltage	24 VDC ± 3%
Adjustment range	22 VDC ... 27 VDC
Rated current at 24 VDC	2.5 A @ 40 °C 2.0 A @ 50 °C 1.5 A @ 60 °C
Power boost current @ 60 °C	2.5 A (For ≤ 3 Minutes)
Holdup time	≥ 20 msec (230 VAC)
Line regulation	< ± 1.0 %
Load regulation	< ± 1.0 % (change in load, static 10% ... 90%)
Overload	105...160% rated output power
Dissipation power load max	8.9 W
Efficiency	> 87 %
Residual ripple ^{Note 2}	≤ 150 mVpp
Short circuit protection	Yes
Overload protection	Yes (Hiccup mode)
Overvoltage output protection	Yes (35 VDC Typ.)
Parallel connection	No
Series connection	Yes
Turn on Delay	2 Seconds
Rise time	30 msec
Resistance to reverse feed	max. 35 VDC



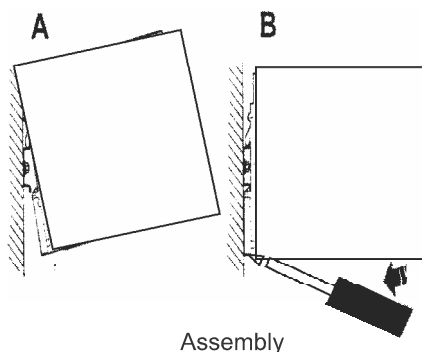
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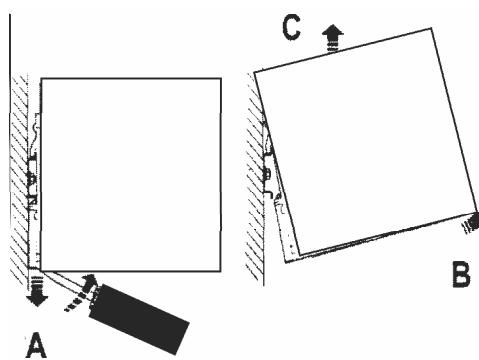
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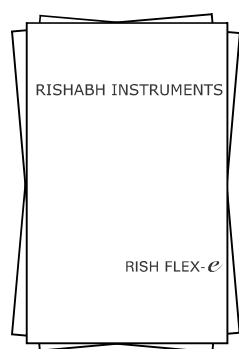
Installation:



Assembly



Disassembly



-5°/+5° max

Maximum angle of Assembly

Technical Specifications: (cont.)

GENERAL DATA :

Isolation voltage input/output	3000V AC
Degree of protection	IP20 (EN/IEC 60529)
Protection class	II
MTBF	> 3,00,000 Hrs in acc. with IEC 61709 (SN 29500)
Type of housing	Plastic enclosure
Housing material	PC Lexan 940
Dimensions W / H / D	54 mm / 90 mm / 62 mm
Weight	0.25 kg approx.
Connection terminal blocks	Screw type 2.5 mm ²

CLIMATIC DATA :

Ambient temperature (operation)	-25 °C ... +60 °C
Ambient temperature (storage)	-40 °C ... +85 °C
Humidity at 25 °C	95 % (no condensation)
Pollution degree environment	2 (in acc. with EN 50178)
Climatic class	3K3 (in acc. with EN 60721)



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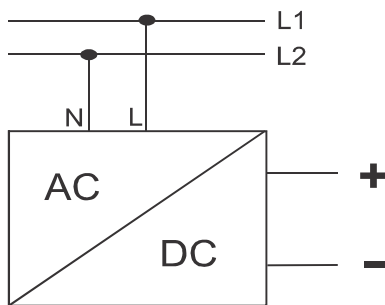
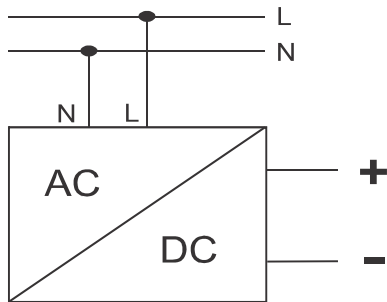
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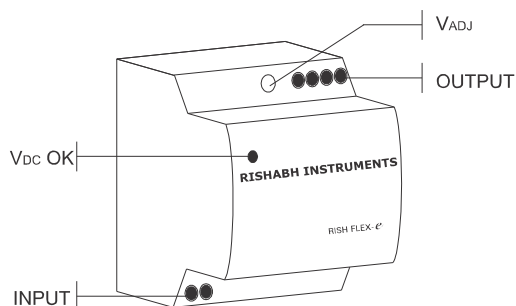
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Electrical Connection:



Layout:



Technical Specifications: (cont.)

STANDARDS :

Electrical safety:

Assembling device	IEC/EN 60950 (VDE 0805) EN 50178 (VDE 0160)
Installation according	IEC/EN 60950
Input/output separation	EN 60950-1(SELV) , EN 60204-1(PELV) Double or reinforced insulation

EMC standards immunity	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5
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EMC standards emission	EN 61000-6-4 EN 61000-3-2
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Safety of electrical equipment for machines	EN 60204-1
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Note:

- 1) All parameters not specifically mentioned are measured at 230VAC input, Rated load and 25°C of ambient temperature.
- 2) Ripple and noise are measured at 20MHz of bandwidth short length lead terminated with a 0.1uF & 47uF parallel capacitor.



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