

RISH FLEX-*e* 1515A

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



RISHABH

**RISHABH
INSTRUMENTS**

Measure, Control & Record with a Difference

RISHABH INSTRUMENTS PVT.LTD.

F-31, MIDC, Satpur, Nashik-422 007, India.

Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064

E-mail : India :- marketing@rishabh.co.in

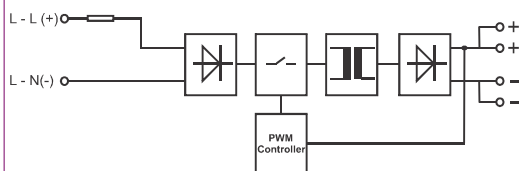
International :- exp.marketing@rishabh.co.in

www.rishabh.co.in

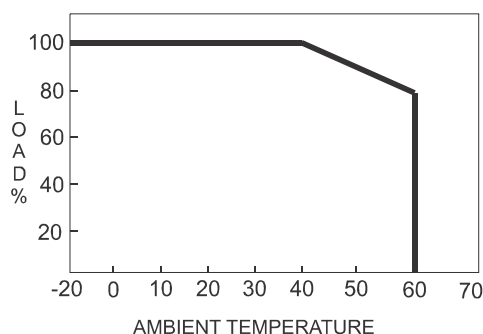
RISH FLEX-*e* 1515A

Primary Switched Power Supply

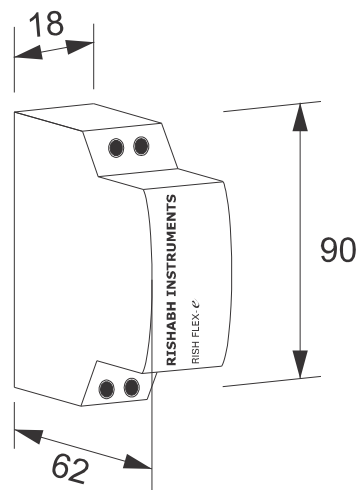
Block diagram:



Temperature derating curve:



Dimensional details:



w x h x d

18 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	≤ 18 A typical
AC frequency range	45 Hz ... 65 Hz
Input current	0.4 A (115 VAC) , 0.3 A (230 VAC)
Internal fuse	T2 A
External fuse (recommended)	10A (MCB curve B)

OUTPUT DATA :

Nominal output voltage	15 VDC ± 3%
Adjustment range	10 VDC ... 15 VDC
Rated current at 15 VDC	1.0 A @ 40 °C 0.9 A @ 50 °C 0.8 A @ 60 °C
Power boost current @ 60 °C	1.0 A (For ≤ 3 Minutes)
Holdup time	≥ 20 msec (230 VAC)
Line regulation	< ± 0.5 %
Load regulation	< ± 0.5 % (change in load, static 10% ... 90%)
Overload	105 ... 180 % rated output power
Dissipation power load max	2.24 W
Efficiency	> 87 %
Residual ripple ^{Note 2}	≤ 120 mVpp
Short circuit protection	Yes
Overload protection	Yes (Hiccup mode)
Overvoltage output protection	Yes (24 VDC Typ.)
Parallel connection	No
Series connection	Yes
Turn on Delay	2 Seconds
Rise time	50 msec
Resistance to reverse feed	max. 16 VDC



RISHABH
INSTRUMENTS

Measure, Control & Record with a Difference

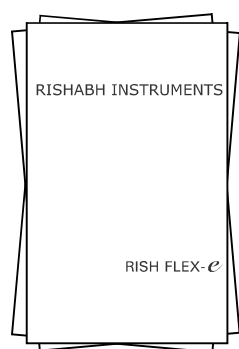
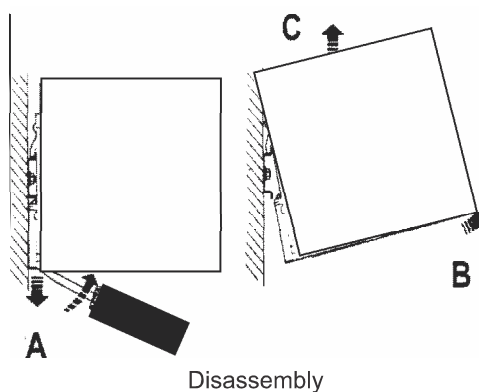
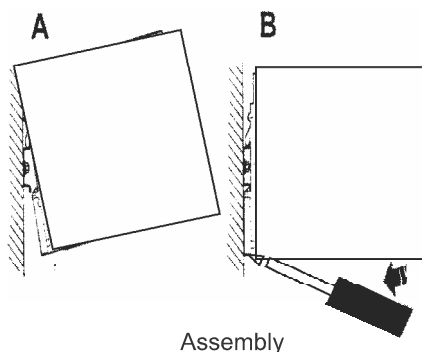
RISHABH
INSTRUMENTS

RISHABH INSTRUMENTS PVT.LTD.
F-31, MIDC, Satpur, Nashik-422 007, India.
Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064
E-mail : India :- marketing@rishabh.co.in
International :- exp.marketing@rishabh.co.in
www.rishabh.co.in

RISH FLEX-*e* 1515A

Primary Switched Power Supply

Installation:



Maximum angle of Asslembly

Technical Specifications: (cont.)

GENERAL DATA :

Isolation voltage input/output	3000V AC
Degree of protection	IP20 (EN/IEC 60529)
Protection class	II
MTBF	> 11,00,000 Hrs in acc. with IEC 61709 (SN29500)
Type of housing	Plastic enclosure
Housing material	PC Lexan 940
Dimensions W / H / D	18 mm / 90 mm / 62 mm
Weight	0.2 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)



RISHABH
INSTRUMENTS

Measure, Control & Record with a Difference

RISHABH
INSTRUMENTS

RISHABH INSTRUMENTS PVT.LTD.

F-31, MIDC, Satpur, Nashik-422 007, India.

Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064

E-mail : India :- marketing@rishabh.co.in

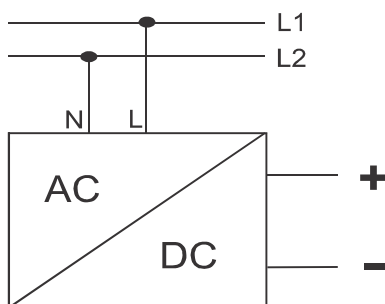
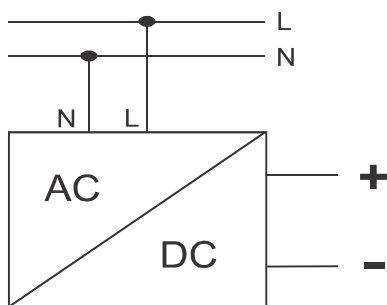
International :- exp.marketing@rishabh.co.in

www.rishabh.co.in

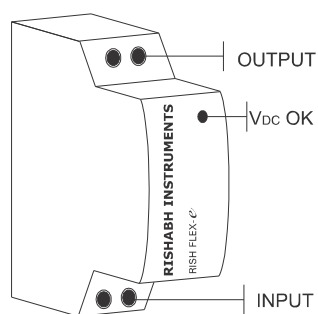
RISH FLEX-*e* 1515A

Primary Switched Power Supply

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
------------------------	--

EMC standards emission	EN 61000-6-4 EN 61000-3-2
------------------------	------------------------------

Safety of electrical equipment for machines	EN 60204-1
---	------------

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.



RISHABH INSTRUMENTS
Measure, Control & Record with a Difference

RISHABH INSTRUMENTS PVT.LTD.
F-31, MIDC, Satpur, Nashik-422 007, India.
Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064
E-mail : India :- marketing@rishabh.co.in
International :- exp.marketing@rishabh.co.in
www.rishabh.co.in