



# Technical Data Sheet

## *E POWER 15XXA*

*Switched Mode Power Supply*



***E Power 15XXA*** is a compact 15 W DIN rail mounting power supply designed to deliver reliable DC power with a universal input range of 85–264 VAC or 120–370 VDC. Featuring high efficiency up to 87%, Class II isolation, and comprehensive protection functions, it is ideal for industrial automation, control panels, and building automation applications.

### Special Features

- Universal AC Input range 85-264 V
- Universal DC Input range 120-370 V
- High Efficiency UPTO 87%
- Isolation Class-II
- Suitable For Indoor Use
- DIN Rail Mounting
- Extremely Compact Plastic Enclosure
- Cooling by Free Air Convection

## Technical Specifications (cont.)

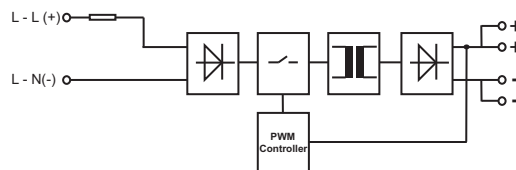
### Input Data

AC input voltage range	85 VAC...264 VAC (Refer Derating Curve)
DC input voltage range	120 VDC ... 370 VDC
Nominal input voltage	115 VAC / 230 VAC (165 VDC / 325 VDC)
Inrush current	≤ 18A typical
AC frequency range	45 Hz...65Hz
Input current	0.4 A (115 VAC) , 0.3 A (230 VAC)
Internal fuse	T2 A
External fuse (recommended)	10A (MCB curve B)

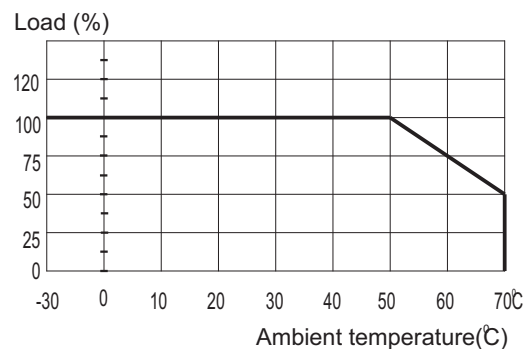
### Output Data

Nominal Output Voltage	See Table 1
Rated current	See Table 1
Power boost current @ 60°C	See Table 1
Holdup time	≥ 50 msec (230 VAC), 15 msec (115 VAC)
Line regulation	< ± 0.5 %
LOAD regulation	< ± 0.5 % (change in load, static 10% ... 90%)
Overload	105...160% rated output power
Dissipation power load max	2.24 W
Efficiency	> 87 %
Residual ripple <sup>Note 3</sup>	≤ 120 mVpp
Short circuit protection	Yes
Overload protection	Yes (Hiccup mode)
Overvoltage output protection	Yes (See Table 1)
Parallel connection	No
Series connection	YES
Turn on Delay	1 Seconds
Rise time	100 msec
Resistance to reverse feed	See Table 1

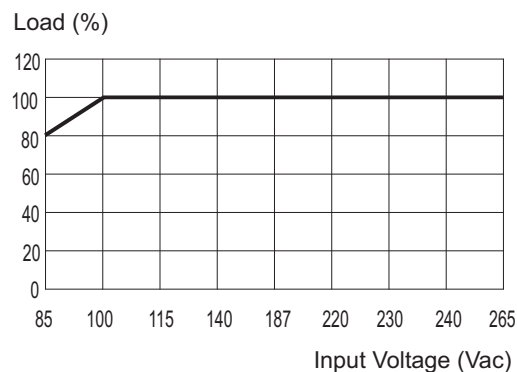
### Block Diagram



### Temperature derating curve



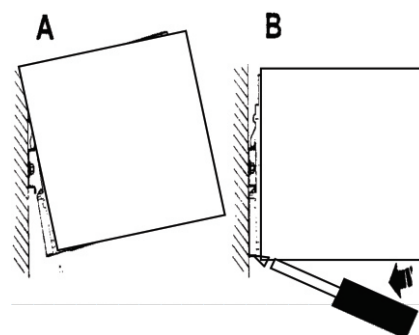
### Input Voltage derating curve



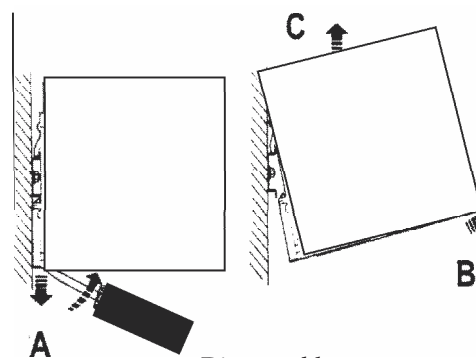
## Technical Specifications (cont.)

General Data	
Isolation voltage input/output	3000V AC
Degree of protection	IP20 (EN/IEC 60529)
Protection class	II
MTBF	> 5,00,000 Hrs in acc. with IEC 61709 (SN 29500)
Type of housing	Plastic enclosure
Housing material	PC Lexan 940
Dimensions W/ H / D	0.71 inch / 3.54 inch / 2.40 inch
Weight	0.1 kg approx.
Connection terminal blocks	Screw type 2.5mm <sup>2</sup>
Climatic Data	
Ambient temperature (operation)	-30°C....+70°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)

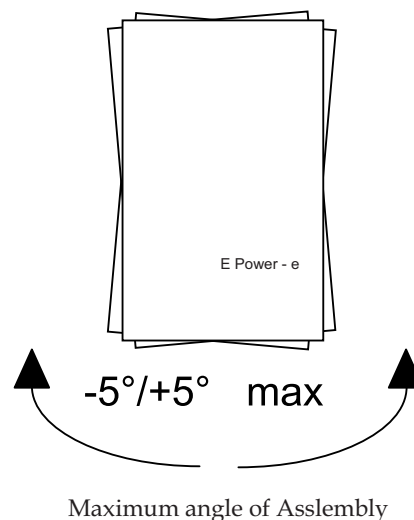
## Installation



Assembly



Disassembly



Maximum angle of Assembly

## Technical Specifications (cont.)

### Standards

<b>Electrical safety :</b> 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

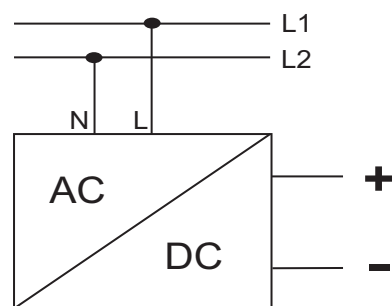
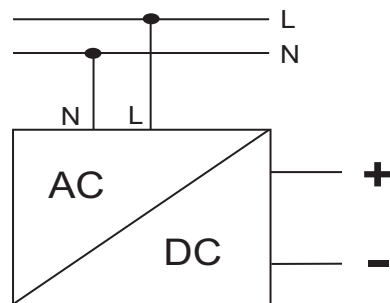
Note :

- 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.

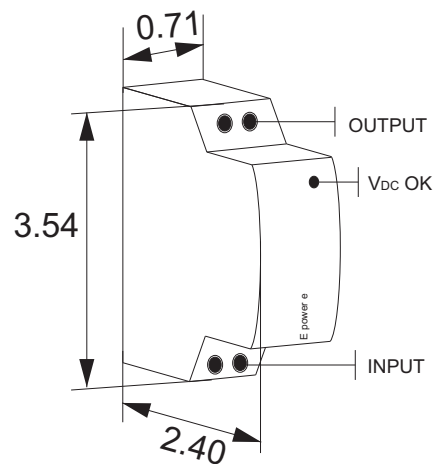
Table 1:

Parameter	E Power 1512A	E Power 1515A	E Power 1524A
Nominal Output Data	12 VDC ± 3%	15 VDC ± 3%	24 VDC ± 3%
Rated Current	1.25 A @ 50°C 0.94 A @ 60°C 0.625 A @ 70°C	1.0 A @ 50°C 0.75 A @ 60°C 0.5 A @ 70°C	0.63 A @ 50°C 0.48 A @ 60°C 0.32 A @ 70°C
Power Boost current @ 60°C	1.25 A (For ≤ 3 Minutes)	1.0 A (For ≤ 3 Minutes)	0.63 A (For ≤ 3 Minutes)
Output Over Voltage Protection	24 VDC Typ.	24 VDC Typ.	35 VDC Typ.
Resistance to reverse feed	Max 16 VDC	Max 16 VDC	Max 35 VDC

### Electrical Connection



### Layout & Dimensions Details



w x h x d

0.71 x 3.54 x 2.40

All dimensions are in Inch

