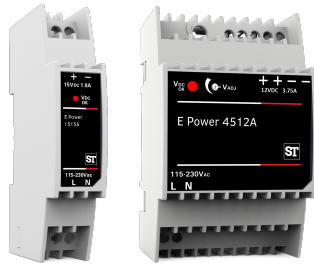


E Power - Power Supply



Instruction Manual

Thank you for having chosen one of our products for your work. We are certain that it will give the utmost satisfaction and be a notable help on your job and application.

1 Product Description

The Power supply a compact devices Switching technology with high efficiency, wide input voltage: single-phase 100–277 Vdc, means of protection II, degree of protection open type, IP20 (not UL evaluated), without connection to PE (protective earth). Protected against short circuit, overload and inverted polarity, Space saving on DIN rail and wall mount.

2 Main Characteristics

Input Data	
Nominal Input Voltage (1 x Vac), 50-60 Hz	115-230 Vac/dc
Input Voltage range	85-264Vac, 120-370Vdc
UL Input Voltage (1 x Vac), 50-60 Hz	115-230 Vac(±10%)
Input current consumption	Column 1 below
Output Data	
Output isolated DC Voltage (Vn)	Column 2 below
Adjustment range (Vadj)	Column 3 below
Continuous Current (In) up to 50°C	Column 4 below
Continuous Current (In) up to 70°C	Column 5 below
Power Boost Current (max 1 min.)	Column 6 below
Environmental Conditions	
Ambient Temperature operation	-30 up to +70°C*
Temperature De-Rating	Linearly from 50°C to 70°C
Pollution degree	2
Natural Convection	Yes
Protective Function	
Short-circuit protection	Hiccup. Shut-down output and automatic restart.
Over Voltage Category	OVC III
Input Rating	IK07
Mechanics Data	
Dimension (WxHxD)	E Power 15xxA: 18 X 90 X 62 mm E Power 30/45/60xxA: 54 X 90 X 62 mm
Weight	E Power 15xxA: 0.1Kg Approx. E power 30/45/60xxA: 0.25Kg Approx.

For 45xxA = -25 to 60°C

Column	1	2	3	4	5	6
Unit	A @ (115-230 Vac)	V	V	A	A	A
E Power 1512A	0.4-0.3	12	-	1.25	0.625	1.25
E Power 1515A	0.4-0.3	15	-	1.0	0.5	1.0
E Power 1524A	0.4-0.3	24	-	0.63	0.32	0.63
E Power 3012A	0.88-0.48	12	10-14	3.0	1.5	3.0
E Power 3024A	0.88-0.48	24	22-27	1.5	0.75	1.5
E Power 4512A	0.95-0.55	12	10-15	3.75	2.8**	3.75
E Power 4524A	0.95-0.55	24	22-27	1.75	1.4**	1.75
E Power 6012A	1.4-0.8	12	10-14	5.0*	2.5	5.0
E Power 6024A	1.4-0.8	24	22-27	2.5*	1.25	2.5

* Continuous Current upto 45°C
** Continuous Current upto 60°C

3 Safety and warning notes



To safely operate this Device please read and follow all instructions carefully before attempting to unpack, install, or operate.

WARNING – Explosion Hazard: do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

WARNING – Explosion Hazard. Replacement of components may impair suitability for class I, Division 2.

WARNING – Switch off the system before connecting the module. Never work on the machine when it is live. The device must be installed according to EN50178 or EN60364. The device must have a suitable isolating facility outside the power supply unit, via which it can be switched to idle. Danger of fatal injury!

WARNING – The device is equipped with an internal fuse. If the internal fuse blows up (fails opens), it is most probable that there is a fault in the device. If this failure occurs, the device must be returned to the factory.

WARNING – If the power supply is used in a way not specified in this manual, the protection provided by the equipment may be impaired.

WARNING – Recycling all package and packaging aids. The device must be recycled not in domestic recycling.

4 How to Install

4.1 Mounting

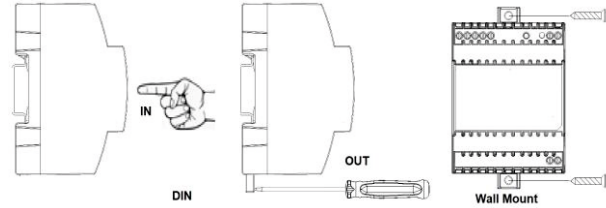


Fig. 1 – Mounting

4.2 Din Rail or Panel Mounting

Fig. 1 shows how to install power supply. It is possible to mount the device on DIN rail or on a panel and fix it by 2 screws suggested 2.9x8-16. There is no limit for the panel thickness.

4.3 Device Connection (Fig.2)

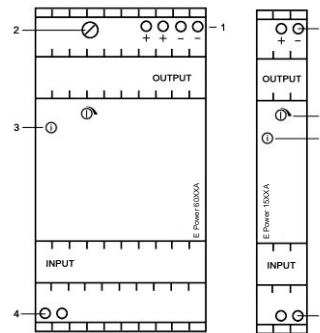


Fig. 2 –Connection terminal

Reference	Description
1	Output
2	Vout Adjust : Not present in E Power 15XXA
3	Red Lamp ON if output Power Supply is Good
4	Input

4.4 Connection terminal and wiring

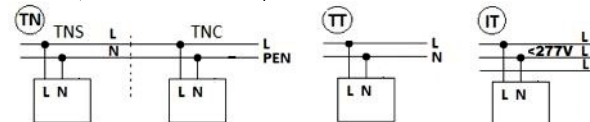
The following cable cross-sections may be used:

	Solid and Standard (mm2)	AWG	Torque (Nm)	Stripping Length
In:	0.2–2.5	30 – 14	0.5 max	7 mm
Out:	0.2–2.5	30 – 14	0.5 max	7 mm

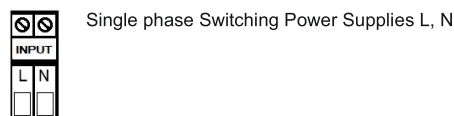
Screw type terminals, 2.5 mm². Wiring shall be marked to indicate the proper connection for the power supply. Use copper cables only; for power connections use wires suitable for at least 75°C Use Copper or Copper-Clad Aluminium Conductor only or AL-CU or CU-AL.

4.5 Input and Output connection

Primary switch mode power supply for connection to 1-phase AC and DC line systems. For AC line systems (TN, TT and IT system in according to IEC 60364-1) with rated voltage 115-230 50–60Hz. Output voltage 12-15 -24 Vdc , isolated and no-load proof.



4.5.1 Input AC Port L – N:



4.5.2 Output Load Connection

