

Reliable controllable
power supplies for
your projects

AXiSOURCE

AX4MV / AX4MP

Adjustable output voltage and current over a wide range.

Remote control option:

- Analog signals when using the AXIF108 control unit
- MODBUS protocol via RS485 when using the AXIF108 control unit

Possibility of parallel arrangement of modules.

Integrated overcurrent and overvoltage protection.

Galvanic isolation input - output.

Power supply: 3ph 400V / 1ph 230V.



AX4MP24-60	0...35 V	60 A
AX4MV24 / AX4MP24	0...35 V	100 A
AX4MV48 / AX4MP48	0...70 V	50 A
AX4MV96 / AX4MP96	0...140V	25 A

High-frequency switched AC/DC converter with MOSFET technology, digitally controlled DC voltage and current source of modular design. Individual sources can be operated separately or arranged in parallel into groups. The AXIF108 expansion communication unit can be used to control the source. It allows controlling a group of sources via the RS485 serial line, using external analog signals, potentiometers or internal trimmers. The device can be used as industrial power supplies, high-power laboratory power supplies, battery chargers, electromagnet power supplies or in electroplating.

Technical parameters

INPUT	AX4MV	AX4MP
Rated supply voltage	3ph 400 V, 50/60 Hz	1ph 230 V, 50/60 Hz
Input supply voltage range	3ph 360...460 V AC / 470...650 V DC*	1ph 195...265 V AC / 260...470 V DC*
Rated power input	3390 VA	3250 VA (1950 VA)**
Input current	4,9 A	14,2 A (8,5 A)**
Starting current	<I _{nom}	
Recommended input fuse	3P 6 A, characteristic C	1P 16 A (10 A)**, characteristic C

* with external overcurrent protection


** AXMP24-60

OUTPUT	AX4MV24 / AX4MP24	AX4MV48 / AX4MP48	AX4MV96 / AX4MP96
Rated output voltage	24V DC	48V DC	96V DC
Output voltage range	0...35 V DC	0...70 V DC	0...140 V DC
Output voltage tolerance	± 1%		
Output voltage ripple	< 0.25 V _{pp}	< 0.25 V _{pp}	< 0.3 V _{pp}
Rated output current	100 A (60 A)**	50 A	25 A
Output current adjustability	0...100 A (0...60 A)**	0...50 A	0...25 A
Output current tolerance	± 2 %		
Efficiency	93 % / 90 %	93 % / 90 %	94 % / 91 %
Power factor	0,92 / 0,99		

PROTECTIONS	AX4MV24 / AX4MP24	AX4MV48 / AX4MP48	AX4MV96 / AX4MP96
Independent overvoltage protection	< 40V	< 80V	< 160V
Overcurrent protection - fuse	✓	✓	✓
Electronic surge protection	✓	✓	✓
Short-circuit proof output	✓	✓	✓

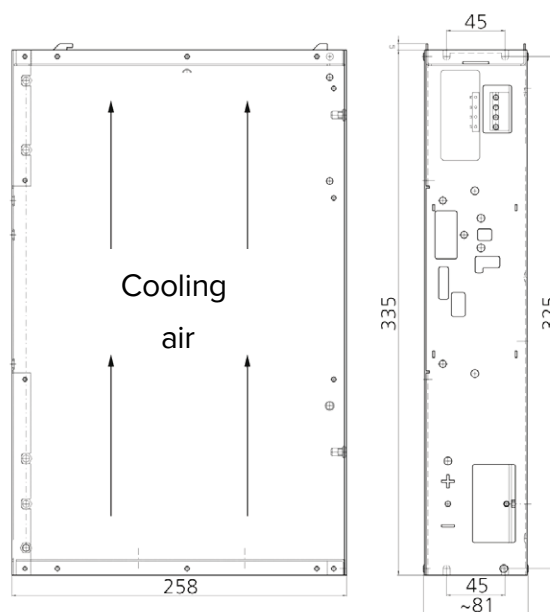
SAFETY	AX4M – all types
LVD	EN 60950-1
Protection class	1
Pollution degree	2

EMC	AX4M – all types
EMC radiation	EN 61000-6-4
EMC immunity	EN 61000-6-2
Harmonic current emissions	EN 61000-3-2

CONNECTIVITY, IP PROTECTION	AX4M – all types
Weight	6 kg
Panel mounting	4 x M5 screw
Operating environment	-10 °C to +40 °C, max. relative humidity 80%, non-condensing
Storage	in dry areas -25 °C to +80 °C, max. relative humidity 80%, non-condensing
Protection class	IP20, except output terminals
Input / output	0.5 - 2.5 mm ² / 2 x M8 screw
Output terminals	

MARKING	Function of the connection terminals
PE	PE protective conductor
L1, L2, L3	phase conductors (3f)
L	phase conductor (1f)
N	neutral conductor (1f)
+	positive output terminal
-	negative output terminal

Dimensional sketch (mm)



Output characteristic

