

Reliable controllable  
 power supplies for  
 your projects

# AxisOURCE

## AX6MX

22 kW controllable power supply

Adjustable output voltage and current over a wide range

Digital control via CAN 2.0 bus

Extended control options when using the AXIF108 communication unit

- Trimmer settings
- Analog signals
- MODBUS protocol via RS485 or Ethernet

Galvanic isolation input - output

Integrated overcurrent and overvoltage protection

Possibility of parallel arrangement of modules

Power supply 3ph 400 – 480 V AC, -10% +15%, without N conductor

Active 3ph PFC with PF > 0.99, current THD < 5%

Maximum output power 22 kW



<b>AX6MX96</b>	<b>50...125 V DC</b>	<b>200 A</b>
<b>AX6MX220</b>	<b>100...250 V DC</b>	<b>100 A</b>
<b>AX6MX400</b>	<b>180...450 V DC</b>	<b>60 A</b>
<b>AX6MX800</b>	<b>360...900 V DC</b>	<b>30 A</b>

High-frequency switched AC/DC converter with SiC technology, active PFC with fully digital control. Digitally controlled DC voltage and current source with modular design via CAN bus. The control options of the source or even a group of sources can be expanded using the AXIF108 communication unit.

The device can be used as industrial power supplies, high-power laboratory power supplies, chargers for lead and lithium batteries, power supplies for electromagnets, and in water treatment plant technologies.

### Technical parameters

INPUT	AX6MX – all types
Rated supply voltage	3f 400 - 480 V, 50/60 Hz
Input supply voltage range	3f 360...552 V AC
Rated power input	23600 VA
Input current	max 32.0 A
Starting current	< Inom
Recommended input fuse	3P 32 A, characteristic B

OUTPUT	AX6MX96	AX6MX220	AX6MX400	AX6MX800
Rated output voltage	96V DC	220V DC	400V DC	800 V DC
Output voltage range	50...125 V DC	100...250 V DC	180...450 V DC	360...900 V DC
Output voltage tolerance	± 1%			
Output voltage ripple	-	-	-	-
Rated output current	200 A	100 A	60 A	30 A
Output current adjustability	0...200 A	0...100 A	0...60 A	0...30 A
Output current tolerance	± 1 %			
Efficiency	95 %		96 %	
Power factor	> 0,99			

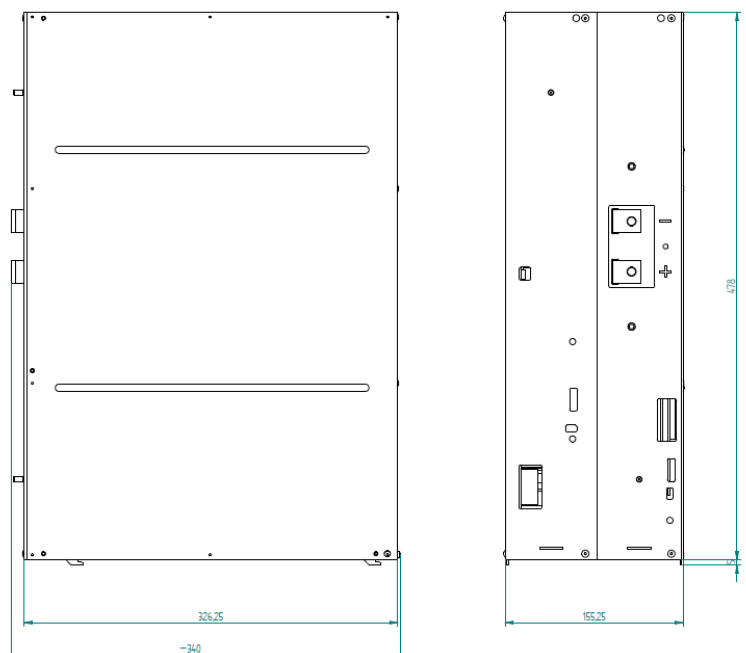
SAFETY	AX6MX – all types
LVD	ČSN EN 62368-1
Protection class	1
Pollution degree	2

EMC	AX6MX – all types
EMC radiation	EN 61000-6-4
EMC immunity	EN 61000-6-2
Harmonic current emissions	EN 61000-3-12

CONNECTIVITY, IP PROTECTION	AX6MX96	AX6MX220	AX6MX400	AX6MX800
Weight	17 kg			
Panel mounting	4 x M6 screw			
Operating environment	-10 °C to +40 °C- full power, -20 °C to +50 °C- limited power, max. rel. 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		IP20	
Input / output	2.5 - 6 mm <sup>2</sup> / 2 x M8 screw		1 - 16 mm <sup>2</sup>	
Output terminals				

MARKING	Function of the connection terminals
PE	PE protective conductor
L1, L2, L3	phase conductors
+	positive output terminal
-	negative output terminal

Dimensional sketch (mm)



Output characteristic

