

AC315DC Switch Mode Power Supply

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 EDI DC Powersupply AC315DC

The AC315DC is designed to

- Stand out because of their compact design, high control accuracy, low ripple, low weight, and a significantly improved efficiency.
- The improved dynamic response of the output values which allow set point value deviations at the DC voltage output to be adjusted within milliseconds.
- And simple control features for start/stop, current and voltage control and output signals.

Description and Use

In contrast with other electronic rectifiers, the ripple of AC315DC power supplies is constant. This result in a generate high quality direct current. The power section is installed in an enclosure made from insulating material.

Quality Assurance

- CE marked.
Each module is factory tested to meet strict industry standards.

AC315DC Electrical data

Mains Voltage EU	3 x 400 VAC ± 10%, 47-63 Hz		
US	3 x 460 VAC ± 10%, 47-63 Hz		
Mains Current	26.7 A		
Mains Power	18.4 kVA		

Nominal DC Voltage	300	400	500	VDC
Nominal DC Current	50	47,5	30	ADC
Control Voltage	24 VDC or 230 VAC			

Efficiency	up to 90%			
Ripple	< 3% referred to nominal values			
Adjustment ranges	0 to 100% of nominal output			
Set Voltage Value	0...10 VDC or 0/4...20 mA DC			
Set Current Value	0...10 VDC or 0/4...20 mA DC			
Control Accuracy	±1% referred to nominal values			

Cooling	Forced air-cooled		
Ambient Temperature	0 to 45 °C		

Dimensions W / D / H	490 / 443 / 276 mm		
Weight	42 kg		
Protection grade	IP20		

Materials

The rectifier consists at more than 95% of recyclable materials. Depending on the construction the device contains the following material

Typical Applications

- Electro Separation Technologies as:
 - Electro Dialysis (ED)
 - Electro Dialysis Reverse (EDR)
 - Electro Delonization (EDI)
- Modern electrochemical processes
- Any industrial application that requires stable DC power