

NEG POWER MINI



HIGHLIGHTS

Input:

- Supply voltage: 100-240 V_{AC}, ±10%
- Frequency: 50-60 Hz, ±10%

Output:

- Power: 175 W
- Overload protection
- Voltage: 0-35 V_{DC}
- Current: up to 5 A

Dimensions:

- 3U 28TE, depth 270 mm

Weight

- 1.6 kg

Main features

- Single controller for activation/conditioning of low-power SAES NEG pumps
- Tunable output voltage, ramp time, power off time
- Temperature monitoring of NEG pumps equipped with thermocouple
- Local control by push buttons
- Remote control with Modbus protocol (LAN/RS232)
- Free Windows and Linux remote control software
- Start/Stop from I/O interface
- Interlock
- USB port for automatic data logging



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Single controller for low-power SAES® NEG pumps

NEG POWER MINI is a single-channel electronic unit specifically designed to control the activation and conditioning processes of low-power SAES NEG pumps (see the table below).

NEG POWER MINI provides:

- Adjustable DC voltage, up to 35 V
- Current up to 5 A
- Power up to 150 W
- LAN remote control

NEG POWER MINI can be operated locally by push buttons, or can be remotely controlled with Modbus protocol over Ethernet or RS232 interface.

The controller can monitor the temperature of NEG pumps equipped with thermocouple.

Ordering Information		
Product description	Code	Pump Models
NEG POWER MINI	3B0110	CapaciTorr: D 50, D 100, D 200, D 400, Z 100, Z 200, Z 400, HV 200; NEXTorr: D 100, D 200, D 300, D 500, Z 100, Z 200, Z 300, HV 100, HV 200, HV 300; GP: GP 50 (only St 707); NEG modules: HV 400, UHV 700
NEG cable 3P5A 3MT*§	3B0598	CapaciTorr D 50, D 100, D 200, Z 100, Z 200; NEXTorr D 100, D 200, Z 100, Z 200, HV 100, HV 200.
NEG cable 4P10A 3MT*§	3B0601	CapaciTorr D 400, Z 400, HV 200
NEG cable 6P5A 3MT*§	3B0854	NEXTorr D 300, D 500, Z 300, HV 300
NEG cable for GP50 3MT*	3B0370	GP 50 (only St 707)

(*) Other length cables are available on request

(§) Bakeable cables up to 250 °C, and radiation resistant (1000 Mrad)

The SAES Group manufacturing companies are ISO9001 certified, the Asian and Italian companies are also ISO14001 certified. Full information about our certifications for each company of the Group is available on our website at: www.saesgroup.com

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NEG POWER Multicontroller



HIGHLIGHTS

Input:

- Maximum power: 3.5 kW
- Supply voltage: 100-240 V_{AC}, ±10%
- Frequency: 50-60 Hz, ±10%
- Input current: 20 A / 110 V_{AC} - 14 A / 230 V_{AC}
- Mains cord connector: IEC Type 16A 250 V

Output 1-4 at 110 V

- Power: 700 W + overload
- Voltage: 10-110 V_{DC}
- Overload: 110% for one minute
- Current: 10 A

Output 1-4 at 25 V - LP VERSION

- Power: 150 W + overload
- Voltage: 0-30 V_{DC}
- Overload: 110 % for one minute
- Current: 5 A

Main features of NEG POWER

- Simultaneous activation/conditioning of up to 4 NEG pumps
- Local control by touch screen
- Remote control on Ethernet/RS232/RS485 interfaces with Modbus protocol
- Free Windows and Linux remote control software
- Temperature monitoring and regulation
- Automatic power regulation for different pump configurations (for pumps equipped with a thermocouple)

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Multicontroller for all SAES® NEG pumps

NEG POWER is a control unit specifically designed to control the activation and conditioning processes of all SAES NEG pumps (see the table below).

NEG POWER can simultaneously control up to four different SAES NEG pumps.

NEG POWER provides:

- Adjustable DC voltage, up to 110 V (up to 25 V – LP version)
- Current up to 10 A (up to 5 A – LP version)
- Power up to 700 W per channel (up to 150 W – LP version)
- LAN, RS232 or RS485 remote control

NEG POWER can be operated locally by a touch screen, or can be remotely controlled with Modbus protocol over Ethernet, RS232 or RS485 interfaces.

Default activation/conditioning parameters for all SAES NEG pumps are available in the setting menu. Custom parameters can be set as well.

Ordering Information		
Product description	Code	Pump Models
NEG POWER C1	3B0501	CapaciTorr: D 1000, D 2000, D 3500, Z 1000, Z 3500, HV 1600, HV 2100; NEXTorr: D 500, D 1000, D 2000, Z 1000; GP: GP 50 (St 101), GP 100, GP 200, GP 500; NEG modules: HV 800, UHV 1400.
NEG POWER C2	3B0502	
NEG POWER C3	3B0503	
NEG POWER C4	3B0504	
NEG POWER LP C1	3B0521	CapaciTorr: D 50, D 100, D 200, D 400, Z 100, Z 200, Z 400, HV 200; NEXTorr: D 100, D 200, D 300, D 500, Z 100, Z 200, Z 300, HV 100, HV 200, HV 300; GP: GP 50 (St 707); NEG modules: HV 400, UHV 700.
NEG POWER LP C2	3B0522	
NEG POWER LP C3	3B0523	
NEG POWER LP C4	3B0524	
NEG cable 3P5A 3MT* [§]	3B0598	Capacitorr D 50, D 100, D 200, Z 100, Z 200; NEXTorr D 100, D 200, Z 100, Z 200, HV 100, HV 200.
NEG cable 4P10A 3MT* [§]	3B0601	Capacitorr D 400, Z 400, HV 200
NEG cable 6P5A 3MT* [§]	3B0854	NEXTorr D 300, D 500, D 1000, D 2000, Z 300, Z 1000, HV 300; Capacitorr D 1000, Z 1000.
NEG cable 6P10A 3MT* [§]	3B0602	Capacitorr D 2000, D 3500, Z 3500, HV 1600, HV 2100; GP 100, GP 200, GP 500.
NEG cable for GP50 3MT*	3B0370	GP 50.

(*) Other length cables are available on request

(§) Bakeable cables up to 250 °C, and radiation resistant (1000 Mrad)