

Solid state Line Conditioner

MADE IN GERMANY



The Line Conditioner

is a complete electronic solution, characterized through its

- ***Fast and reliable regulation***
- ***Compactness, light weight and unique design***
- ***Maintenance less characteristic***
- ***Efficient capability of filtering and suppressing distortions***
- ***Compliance with European standards***

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Specifications:

Standard* power rating: 0,5 / 1 / 2 / 3 / 5 / 7 / 10 kVA & MORE
(single phase)

Input voltage: 165 ... 255 V

Output voltage: 220V +/- 6%

Total correction time: less than 20 ms *to any voltage deviation*

Operating frequency: 46 ... 62 Hz

Load type: all types of loads

Energy efficiency: 96 % typical

Total harmonic distortion: less than 2 %

Ambient temperature: -10 °C.....+ 35 °C
*In environments with higher temperatures
the output power decreases accordingly*

Noise rejection: available

Spike suppression: available

Relative humidity: max. 92% *(not condensed)*

Audible operating noise: less than 45 dB (A) / m

To ensure sufficient heat abduction and ventilation, keep a minimum distance of 10 cm free next to each side of device. Never put objects on top of the stabilizer case.

This device may only be opened by qualified personal.

* *Other power ratings and/or specifications on request.*

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Function status (LED)

LED INDICATION	CONDITION	HELP
Ready <i>is illuminated</i>	Output power is available	_____
Overvoltage <i>is illuminated</i>	Output power is off. <i>Automatic reset whenever input voltage returns to specified range</i>	_____
Undervoltage <i>is illuminated</i>	Output power is off. <i>Automatic reset whenever input voltage returns to specified range</i>	_____
Undervoltage <i>is flashing</i>	Output power is off Regulator has repeatedly failed to maintain regulation undervoltage limit exceeded <i>Automatic reset at 150 s interval</i>	Reduce load
Overload <i>is illuminated</i>	Output power is off, device overheated. <i>Automatic reset as soon as the device temperature returns to specified range.</i>	Check cooling conditions, reduce load.
Overload <i>is flashing</i>	<i>Output power is off due to</i> overload.	Reduce load, check cooling conditions and reset the thermal switch (press knob)
Overvoltage and undervoltage <i>are flashing alternately</i>	Output power is off control failure.	Disconnect the Ecco from the mains and replug it. Repeat to reset. Contact Service
No LED <i>is illuminated or flashing</i> mains available	Melting fuse is activated.	Replace fuse with one as specified at rear of the device

For ultimate safety

Three phase solid state line conditioner

Available for power range **5 kVA** up to **170 kVA**.



Input voltage:	165 ... 255 V *
Output voltage:	220V +/- 2% *
Total correction time:	less than 20 ms <i>to any voltage deviation</i>
Operating frequency:	46 ... 62 Hz *
Load type:	all types of loads
Energy efficiency:	96 % typical
Total harmonic distortion:	less than 2 %
Ambient temperature:	-10 °C.....+ 35 °C <i>In environments with higher temperatures the output power decreases accordingly</i>
Common mode:	≥ 63 dB
Differential mode:	≥ 94 dB
Spike suppression:	25 kA (8/20)
Relative humidity:	max. 92% <i>(not condensed)</i>
Audible operating noise:	less than 45 dB (A) / m

* Other specifications on request.