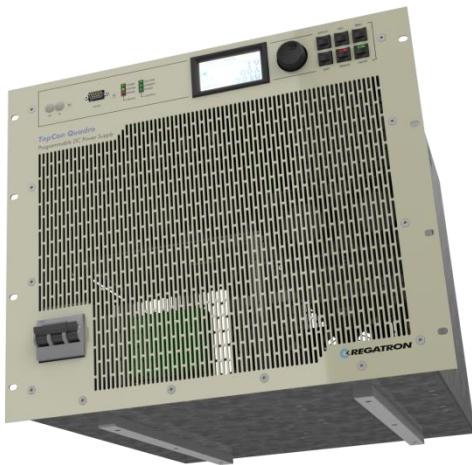


# Option Ruggedized

## for TopCon Quadro Power Supply



TopCon Quadro 9U Power Supply with HMI option and und mechanical strengthening option.

Especially for use in mobil applications with their enhanced requirements to vibrations, shock and ever-changing environments, a modified Version of a TopCon Power Supply is necessary.

Regatron provides solutions for mobile applications and offers the following enhancements. You have the choice to order them separately or in combination.

### Ruggedized Options:

- **Mechanical strengthening**  
with high complex and constructional modifications. For example adaptions to hostile vibration conditions.
- **Adaption to rough environment conditions**  
with increased realibility at condensation

### Used testing standards:

Mechanical single shock.....	IEC 60068-2-27
Sine vibration.....	IEC 60068-2-6
Random vibration .....	IEC 60068-2-64

### Device height 9U

#### Handling mechanical strengthening

##### Shock (according to IEC 60068-2-27)

Shock acceleration.....	20 g/11 ms
Shock number and vector .....	± 3 Shocks/axis
Shock direction .....	X-, Y- and Z-axis

#### Operational mechanical strengthening

##### Shock (according to IEC 60068-2-27)

Shock acceleration.....	2 g/11 ms
Shock number and vector .....	± 3 Shocks/axis
Shock direction .....	X-, Y- and Z-axis

#### Sine vibration (according to IEC 60068-2-6)

Frequency range .....	10 Hz – 150 Hz
Random vibration resistance (Peak) .....	2 g
Averange test time .....	30 min./axis
Vibration direction .....	X-, Y- and Z-axis

#### Random vibration (according to IEC 60068-2-64)

Frequency range .....	10 Hz – 500 Hz
Random vibration resistance (RMS) .....	1.9 g
Averange test time .....	30 min./axis
Vibration direction .....	X-, Y- and Z-axis

#### Acceleration Spectral Density:

10 Hz – 200 Hz .....	0.01 g <sup>2</sup> / Hz
500 Hz (lin. slope from 200 Hz to 500 Hz) .....	0.003 g <sup>2</sup> / Hz

### Environmental conditions

#### Condensation

Condensation during operation does not affect the functionality of TopCon Power Supply.

#### General mass

Weight increase .....	2 kg
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#### Width

Front panel.....	483 mm
Body.....	(19") 444 mm

#### Height

Front panel.....	399 mm
Body.....	(9 U) 394 mm
width strengthening struts .....	409 mm

#### Depth

with DC-bars .....	570 mm
Body.....	525 mm

#### Strengthening struts

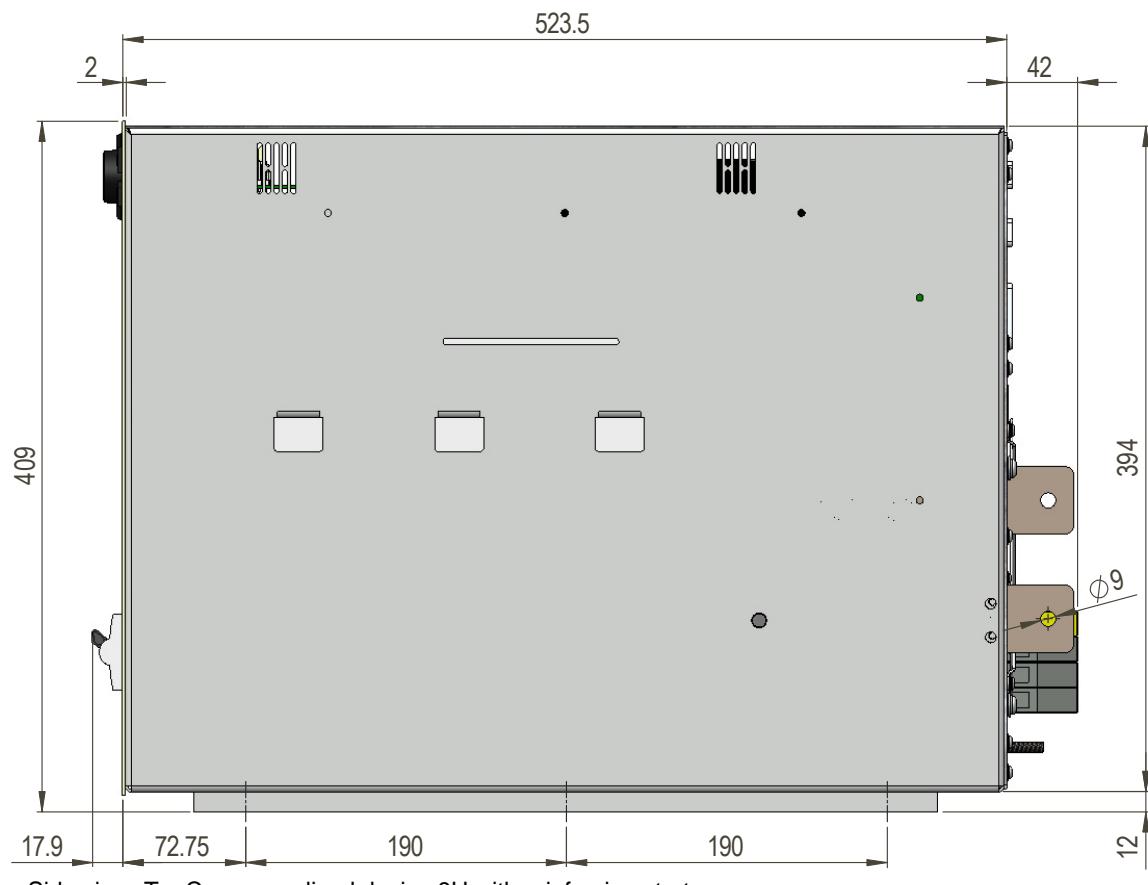
Number .....	2 pieces
Number mounting holes .....	3 pieces /strut
Diameter mounting holes .....	M 8

### Regatron AG

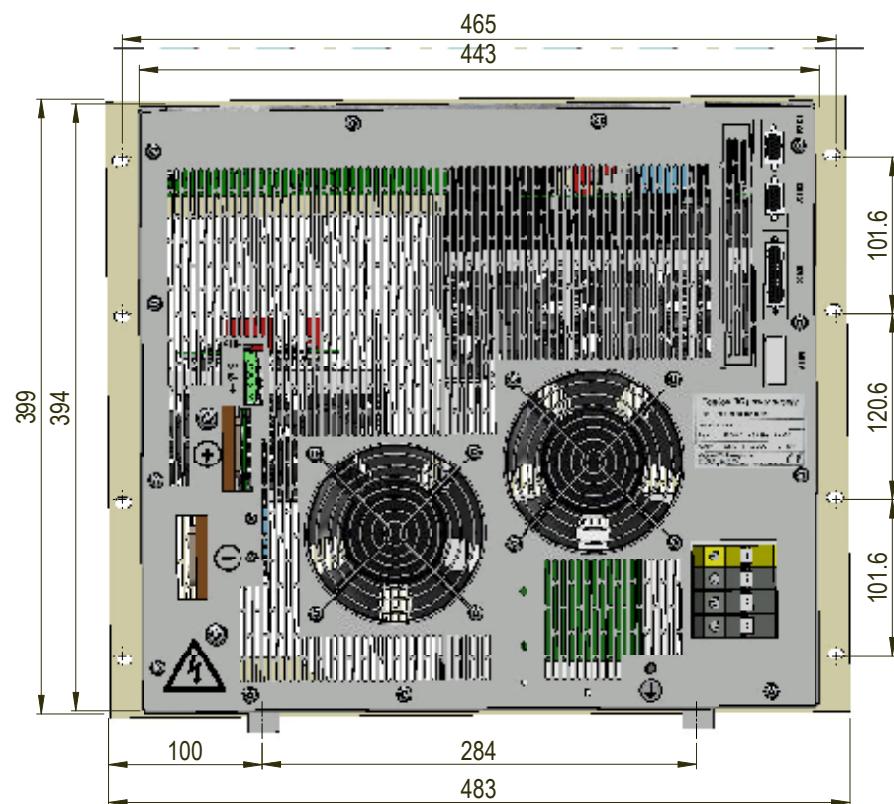
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## Option Ruggedized – continuation

Device dimensioning sketches



Side view: TopCon ruggedized device 9U with reinforcing struts



Rear view: TopCon ruggedized device 9U with reinforcing struts