

Option Ruggedized

for TopCon Quadro Power Supply



TopCon Quadro 6U 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 adaptations 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

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Device height 6U

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
Average 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
Average test time 30 min./axis
Vibration direction X-, Y- and Z-axis

Acceleration Spectral Density:

10 Hz – 200 Hz. 0.01 g²/ Hz
500 Hz (lin. slope from 200 Hz to 500 Hz) 0.003 g²/ Hz

Environmental conditions

Condensation

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

General mass

Weight increase 2 kg

Width

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

Height

Front panel..... 265 mm
Body..... (6U) 262 mm
width strengthening struts 274 mm

Depth

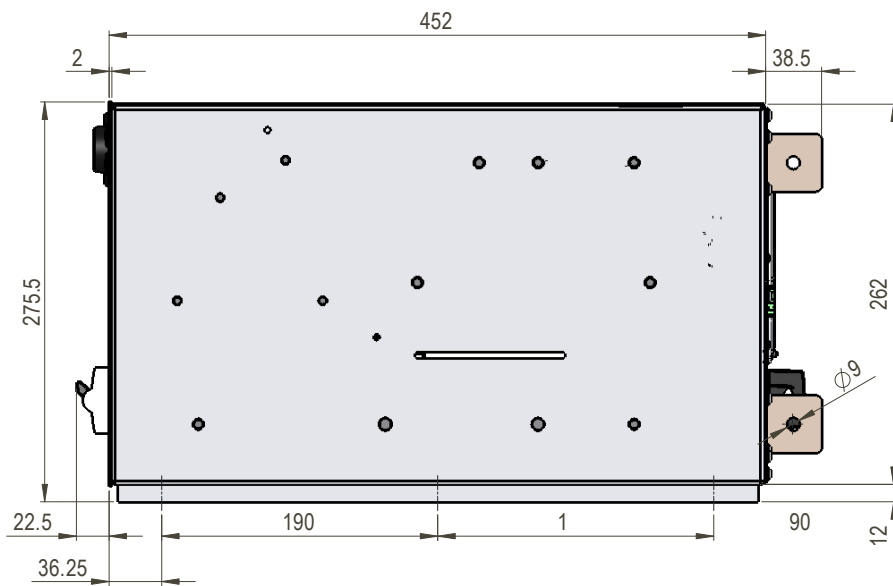
with DC-bars 490,5 mm
Body..... 425 mm

Strengthening struts

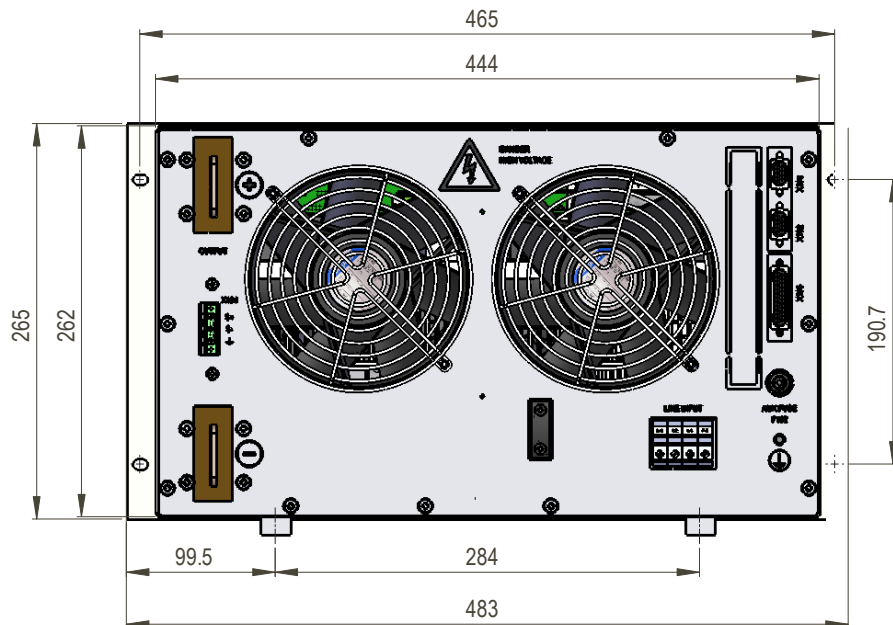
Number 2 pieces
Number mounting holes 3 pieces /strut
Diameter mounting holes M 8

Option Ruggedized – continuation

Device dimensioning sketches



Side view: TopCon ruggedized device 6U with reinforcing struts



Rear view: TopCon ruggedized device 6U with reinforcing struts