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 adoptions 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

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### Environmental conditions
**Condensation**
Condensation during operation does not affect the functionality of TopCon Power Supply.

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### General mass
- Weight increase ..................... 2 kg

### Dimensions
- **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

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Option Ruggedized – continuation

Device dimensioning sketches

Side view: TopCon ruggedized device 6U with reinforcing struts

Rear view: TopCon ruggedized device 6U with reinforcing struts