

## Product DataSheet:

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### TPS – Transmitters Power Supply

The Transmitters Power Supply is a rugged military grade module with fast current response able to feed two independently impulsive load as transmitters.

Fully qualified MIL-STD-810G and MIL-STD-461F the TPS module is suitable for applications that require fast current response and reliability in military environment.

REACH, ROHS and CE marking compliance.



#### Key Specifications:

- Rugged military grade module
- 385V high voltage energy buffer and current limiting circuit to parallelization of modules on the same power supply line
- 32V output voltages with fast current transient up to 14Ax6msec each 50ms
- Status LEDs and monitoring connector on front panel to check the internal power supply stages
- [-19 ÷ +55]°C operating temperature and [-40 ÷ +71]°C storage temperature
- IP67 small size aluminum container, made from solid, to transfer the heat towards the cooling plate
- Made of aluminum alloy of the 5000 and 6000 series with conductive anticorrosion treatment Surtec 650 in accordance with MIL DTL 5541F Class III
- Fully qualified MIL-STD-810G and MIL-STD-461F
- REACH, ROHS and CE marking compliance
- Dimensions (h x l x d) 177,5 x 31 x 410 (mm)
- Weight 3 kg

**INPUT POWER**

2 x 385Vdc (redundancy)  
0,6A max  
230VA max

**ISOLATION**

2100Vdc input to chassis  
700Vdc output to chassis

**EMI**

Compliant to MIL-STD-461F:  
CE102, RE102,  
CS114, CS115, CS116,  
RS102, RS103

**INPUT/OUTPUT SIGNALS**

Internal monitoring stages  
SMBus/I2C interface

**INTERNAL POWER DISSIPATION**

<64W

**OPERATING TEMPERATURE**

[-19 ÷ +55]°C

**STORAGE TEMPERATURE**

[-40 ÷ +71]°C

**COOLING**

Cooling plate

**ENVIRONMENT PROTECTION**

Full ruggedizing  
Conformal coating  
IP67 compliance

**SHOCK & VIBRATION**

MIL-STD-810G: environment  
expected during transportation by  
wheeled vehicles/trailers, rail, air  
and ship.

**HUMIDITY**

MIL-STD-810G method 507.5  
RH 95% at 35°C

**SALT FOG**

MIL-STD-810G method 509.5  
NaCl 20% at 35°C

**MTBF**

114.259h MIL-217F  
Ground Fix at 30°C

**INDICATORS**

Power status

**CONNECTOR**

DSUB connectors  
D38999 test connector

**DIMENSIONS (h x l x d)**

177,5x31x410 (mm)

**WEIGHT**

3 Kg

**COMPLIANCE**

REACH, ROHS and CE marking