TPSi2100 PC/104-Plus Power Solution Isolated 100W DC-DC Power Converter

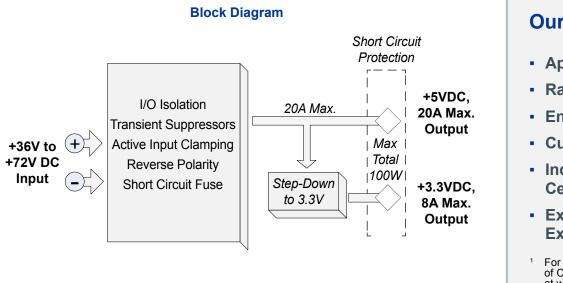




The TPSi2100 is an isolated PC/104-*Plus* power solution, designed for embedded applications requiring isolation and clean power in rugged environments.

With wide-range input voltages, transient suppression, galvanic isolation, and pluggable terminal mating plugs, this rugged design is ideal for any industrial application.

Designed for harsh environments, including military standards, shock, vibration and extended temperature, the TPSi2100 is well suited for transportation, defence, and aerospace industries. For reliable protection and high performance, the TPSi2100 is the perfect solution for isolated DC power.



Key Specifications

- Enhanced Protection
 2250V input/output isolation
 6000W transient suppression
 Active input voltage clamping
 Reverse polarity, short circuit
- Wide Input Voltages Ranges from 36 to 72 VDC
- Standard Outputs 5V@20A, 3.3V@ 8A 100W combined total
- High Performance
 Up to 88% efficiency
- Extended Temperature -40°C to +85°C / -40°F to +185°F

Advantages

- Rugged Design
- Galvanic Isolation
 Reliable system protection
- Simple Installation
 Terminal socket mating plugs
- Space Efficient Solution
 High density PC/104-Plus module

Our Capabilities

- Application Engineering
- Rapid Development
- Engineered Systems
- Custom Software
- Industry Standards & Certification
- Exceptional Customer Experience

For more information, see the Certificate of Compliance available on our website at www.tri-m.com.





Specifications

Electrical

Input Voltage Range +5V Output Maximum Combined Power (see note 1) Efficiency (see note 1) Isolation Voltage Transient Suppression Output Ripple/Noise (see note 2) Line Regulation (see note 2) Load Regulation (see note 2) Current Limiting Fuse

Mechanical

Dimensions

Weight

Environment

Operating Temperature (see note 1)

1) Maximum power may be derated due to temperature..

2) 5V Output

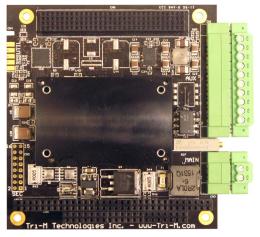
36 to 72VDC 20A maximum 100W total

Typ 88% 2250V maximum 6000W total Typ 25mV, maximum 50mV ±0.05% maximum ±0.05% maximum Onboard 15A (on input source)

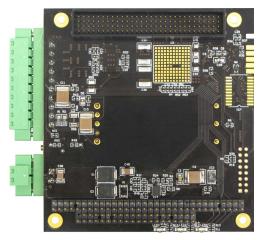
PC/104 compliant 90 × 96 × 15mm (3.55 × 3.775 × 0.6") 110g (3.9oz) no plugs 117g (4.1oz) with plugs

40°C to +85°C (-40°F to +185°F)

Top View



Bottom View



Note For detailed dimensions, connector and pin spacing information, please see the *TPSi2100 User Guide*.

Ordering Information

Models

TPSi2100

+5V, combined total 100W



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