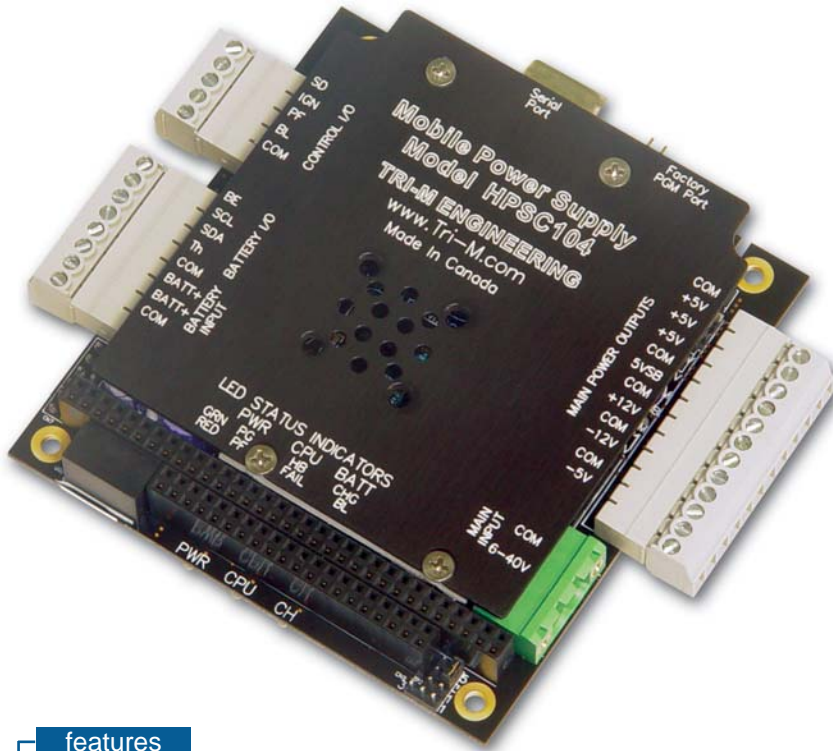


HPSC104-SER

High Power & Smart Charging Vehicle Power Supply



features

- DC to DC converter for embedded applications.
- "Load Dump" transient suppression on input power supply.
- Operates from 6VDC to 40VDC input.
- PC/104 compliant.
- PC/104 memory mapped interface and RS232 serial port for setup, monitoring and control.
- 5V, 12V, -12V, -5V, V5SBY and battery charger outputs.
- Temperature range -40 to 85C.
- Monitors up to 8 external temperatures using I2C digital temperature sensors.
- Optocoupled inputs for ignition, and system "shut-down" pushbutton.

specifications

Electrical Specifications

- 5V output* 25A
- 12V output 5A
- -5V output 400mA
- -12V output 500mA
- V5SBY 7A
- Maximum battery charger current 4A
- Battery Charger output voltage range 10 to 35V
- Input voltage range 6-40VDC

Mechanical/Environmental

- Temp range** -40 to 85C
- PC/104 form factor compliant 3.55"W x 3.775"L x 0.6"H

Performance Characteristics

- Load regulation <60mV
- Line regulation +40mV
- Output temp drift <40mV
- Switching frequency (5V, 12V, -12V & V5SBY) 310 to 320kHz
- Output ripple <20mV
- Conducted Susceptibility >57db
- Efficiency up to 95%

* Includes current supplied to 12V, -12V & -5V regulators

** Temperature range as measured on the product heat sink

Ordering Information



this product is
manufactured by:



Part Number

HPSC104-SER

Description

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