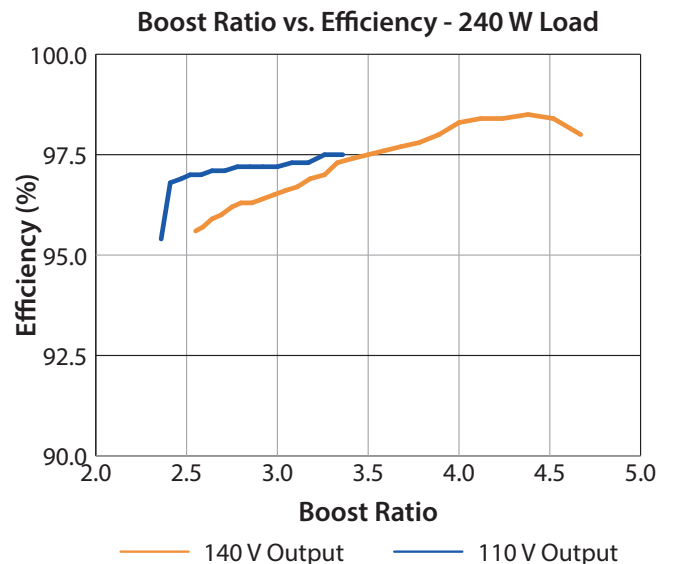
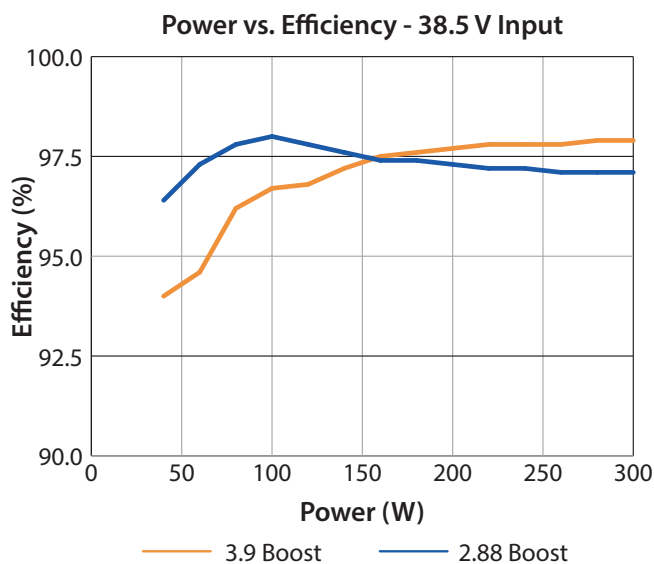
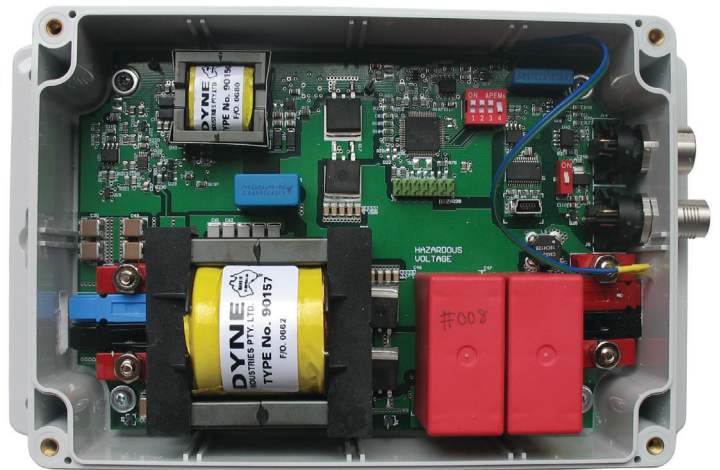


The Aurora/Symtech Maximum Power Point Tracker represents the next generation of high efficiency converters for solar powered vehicles.

Designed to boost the PV voltage to the battery voltage the Tracker utilises the latest resonant soft switching technology to achieve the highest efficiency over a broad range of power and voltages.

A transformer and associated circuitry achieves galvanic isolation from input to output which alleviates the need for circuit breakers to be installed on the PV side of the Tracker – a new World Solar Challenge regulation.

A powerful DSP running a fast tracking algorithm ensures the PV panels stay locked onto their maximum power point and to recover quickly in the event of variable shading.



Ratings

- Rated to 240 W
- Overload rated to 300 W for 5 minutes
- Nominal Input Voltage Range: 20 - 55 V
- Maximum Input Voltage: 60 V
- Nominal Battery Voltage Range: 110 - 165 V ⁽¹⁾
- Maximum Battery Voltage Range: 170 V
- 3 kV Galvanic Isolation from input to output
- Peak Efficiency: 98.5%

Environmental & Packaging

- Operating Temperature Range: -20 to +85 °C
- Passively Cooled through natural convection
- Dimensions: 122 x 200 x 58 mm
- Weight: 790 g

1 Mbps CAN Bus Interface

- Voltage Reporting
- Current Reporting
- Internal Temperature Reporting
- Shut down via the CAN Bus

Note (1): At low battery voltage of 110V and rated power of 240W, the lowest Vmp voltage is 33V. However this voltage range extends lower at reduced powers and/or higher battery volts. Other voltage ranges are available on request.

Contact

Email: ross@sym-tech.com.au
Symetric Technologies Pty Ltd, Blackburn Australia