

250-W Quarter Bricks Operate From 9-V To 36-V Inputs

[GAIA Converter's](#) new family of quarter brick dc-dc converters, designated as the MGDI-204 and MGDI-254, deliver 200 W and 250 W of output while operating from a wide input voltage range of 9 V to 36 V. This capability makes them well suited for 12-V, 24-V or 28-V applications in ground-borne industrial or on-board mobile applications.

The family consists of single-output models offering 12-V output voltage, capable of delivering up to 16.6-A and 20.8-A output current with 92% efficiencies in the industry-standard quarter brick footprint of 57.9 mm x 36.8 mm x 12.7 mm (see the figure).

The units incorporate a complete suite of protection functions such as undervoltage lockout, overvoltage protection, current limitation and overtemperature protection. In addition, all units are permanently short circuit proof. They can be operated at zero load, and employ soft start to eliminate inrush current during start up. Modules operate over a wide temperature range from -40°C up to +100°C case temperature.

For more information and to access data sheets, see the MGDI-204 product [page](#) and the MGDI-254 product [page](#).



Figure. The MGDI-204 and MGDI-254 series dc-dc converters deliver 200 W and 250 W of output, respectively, while operating from a wide input voltage range of 9 V to 36 V.