

# Total Mobile Power Ltd

Off-grid and mobile power solutions

[www.totalmobilepower.com](http://www.totalmobilepower.com)



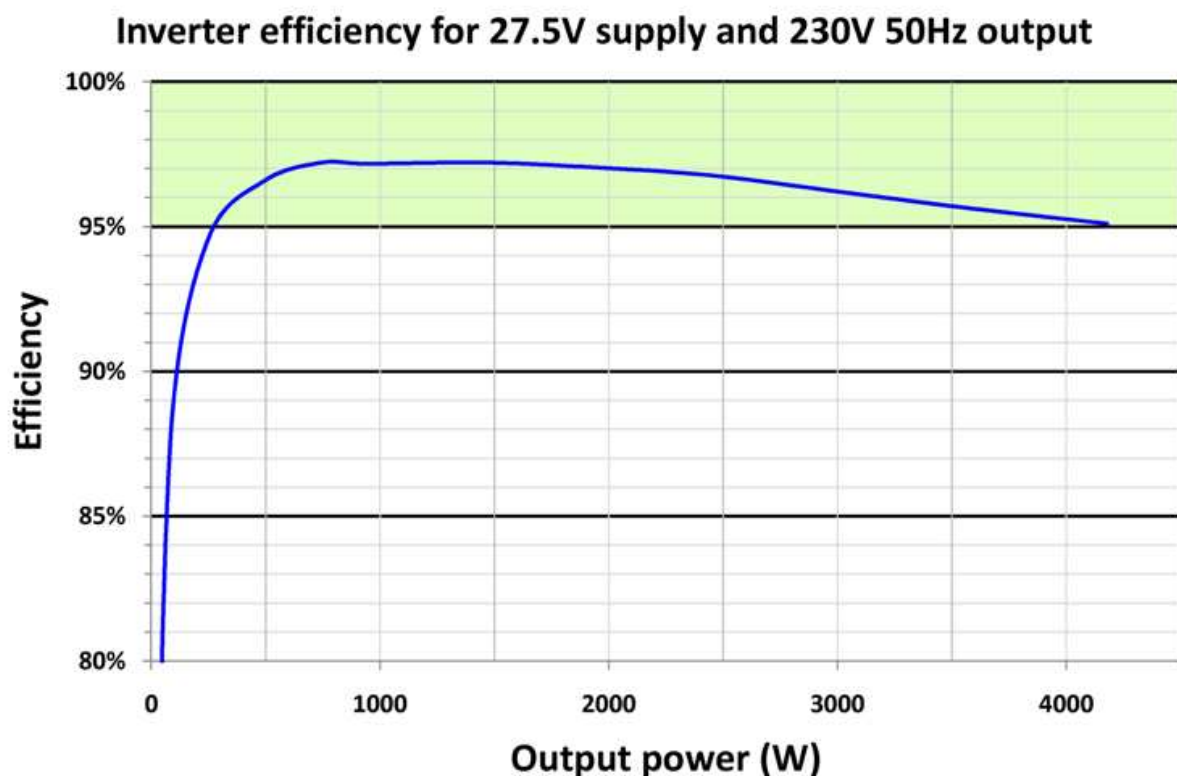
## Press Release

11 July 2011

### Total Mobile Power develops ultra-high efficiency true sine-wave inverter technology

Total Mobile Power has developed innovative true sine-wave inverter technology giving high efficiency at low DC supply voltages and minimal no-load power. This technology will be of particular interest to manufacturers of mobile, off-grid and alternative power systems who wish to minimise power losses in the conversion to mains AC power.

A prototype 24VDC to 230VAC 4kW inverter using this technology has greater than 95% efficiency from 270W to 4200W and a peak efficiency of 97.2% at 1500W. (See efficiency curve below)



The prototype no-load power is less than 9W. The production version of this inverter will be rated at 5kW continuous output at an ambient temperature of 40C and have a surge rating of 8kW for 3 seconds.

# Total Mobile Power Ltd

*Off-grid and mobile power solutions*

[www.totalmobilepower.com](http://www.totalmobilepower.com)



The modular technology allows high power, compact and lightweight inverters to be assembled from the basic 5kW block. A 20kW inverter made up from four power modules is expected to be just 440x540x230mm (17x21x9 inches) and weigh less than 30kg (67lb).

“New ways of generating power, such as fuel cells and sustainable energy sources, are now becoming viable and many of these produce power at low DC voltages. This has highlighted the need for highly efficient inverters that are optimised to work at these low voltages” says Total Mobile Power’s Chief Engineer Chris Fotherby. “Over the last several years we have made a number of innovations in different areas of inverter technology which together give the high efficiency we have achieved. We are pleased with the developments we have made in this area and we believe this efficiency is superior to that of other inverters currently available.”

Total Mobile Power Ltd plans to design and manufacture inverters for off-grid and alternative power solutions and seeks OEM partnerships with other innovative companies working in these areas.

For more information contact:

Liz MacFarlan  
Business Development Manager  
Total Mobile Power  
[info@totalmobilepower.com](mailto:info@totalmobilepower.com)  
[www.totalmobilepower.com](http://www.totalmobilepower.com)

Ends

Notes to Editors

Please give prominence to the efficiency curve as this is likely to be of the greatest interest to your readers.

A high resolution image of the efficiency curve is available at the following link:

<http://www.totalmobilepower.com/images/EfficiencyCurve.jpg>