

## INVERTER FOR OFF-GRID APPLICATIONS



AC pure sine wave output



Continuous power: 800 VA, 230V, 50 Hz



90% maximum inverter efficiency



Energy Saving function



12 V / 24 V battery voltage



LED indicators



Protections:

- Low battery
- Over-temperature
- Short circuit and AC overload



Shutdown switch



Pb-lead acid, Pb-AGM, Pb-gel batteries and Lithium batteries



IP20 metal box

Il **W800-12** ed il **WI800-24** sono inverter DC/AC, studiati per applicazioni isolate, ad alta affidabilità e con prestazioni professionali.

Il prodotto è stato sviluppato per produrre una forma d'onda di uscita AC sinusoidale pura, con un'elevata efficienza di conversione, fino al 90%, e bassissimi consumi in stand-by, inferiori a 2,5W.

Tali caratteristiche sono ottenute tramite una configurazione ibrida con trasformatore toroidale di uscita e tecnologia commutazione ad alta frequenza (HF Technology).

La funzione **risparmio energetico** permette di ridurre i consumi in modo determinante in caso di mancanza di carico collegato, garantendo una superiore autonomia di sistema.

**WI800-12** and **WI800-24** are DC / AC inverter, designed for off-grid applications, with high reliability and professional performance.

The product was developed to produce a waveform of pure sine AC output, with high conversion efficiency, up to 90%, and very low power consumption in stand-by mode, less than 2.5W.

These features are obtained through an hybrid configuration with a toroidal transformer output and high frequency switching technology (HF Technology).

The **energy saving** function allows to reduce the consumption in a significant way in the event of lack of the connected load, ensuring a superior system autonomy.

**WESTERN CO. S.r.l.**

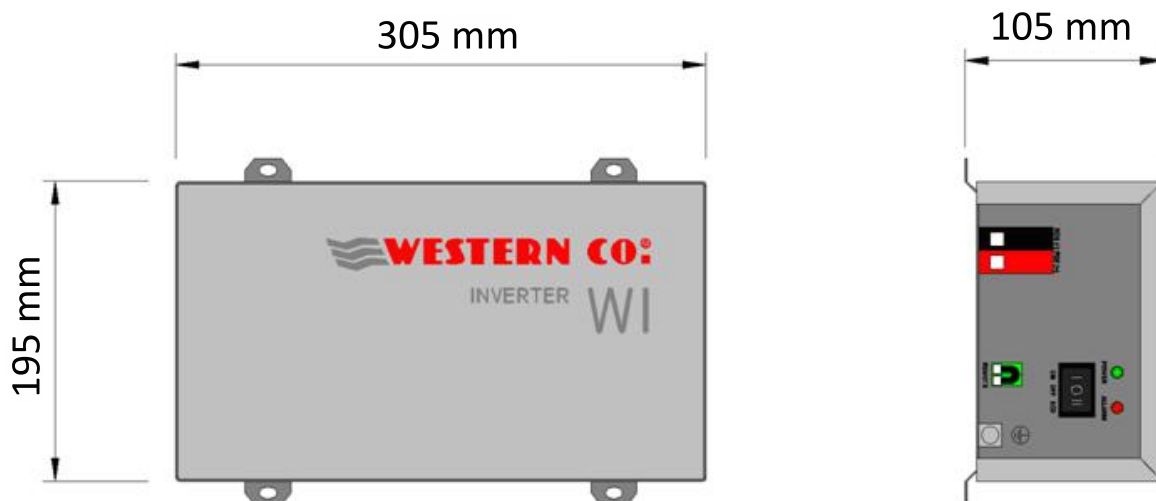
Via Pasubio, 1 - 63074 San Benedetto del Tronto (AP)

Tel. +39 0735 751248 - Fax +39 0735 751254

info@western.it - www.western.it

|           |                                         |       | 12V battery nominal voltage |                   |       | 24V battery nominal voltage |                   |       |
|-----------|-----------------------------------------|-------|-----------------------------|-------------------|-------|-----------------------------|-------------------|-------|
|           |                                         |       | Min                         | Typ               | Max   | Min                         | Typ               | Max   |
| INVERTER  | Output power                            | Pout  | -                           | 800VA             | 1600W | -                           | 800VA             | 1600W |
|           | Battery voltage                         | Vbatt | 9.2V                        | 12V               | 17V   | 18.4V                       | 24V               | 34V   |
|           | Output voltage                          | Vac   | -                           | 230V              | -     | -                           | 230V              | -     |
|           | Output frequency                        | Fac   | -                           | 50Hz<br>±0.1%     | -     | -                           | 50Hz<br>±0.1%     | -     |
|           | Efficiency                              | Eff   | -                           | 94%               | -     | -                           | 94%               | -     |
|           | Internal consumption in stand-by mode   | Psb   | -                           | 5W                | -     | -                           | 5W                | -     |
|           | Load activation / energy saving         | Pes   | -                           | 30W / 20W         | -     | -                           | 30W / 20W         | -     |
|           | Threshold alert for low battery         | Tba   | 10.8V                       | 10.9V             | 11.0V | 21.6V                       | 21.8V             | 22.0V |
|           | Shutdown threshold for low battery      | Tbs   | -                           | 9.3V              | -     | -                           | 18.6V             | -     |
|           | Reactivation threshold from low battery | Tbr   | -                           | 10.9V             | -     | -                           | 25.0V             | -     |
|           | Internal over-temperature alarm         | Tot   | -                           | 55°C              | -     | -                           | 55°C              | -     |
|           | Operating temperature                   | Tamb  | -10°C                       | 25° C             | 60°C  | -10°C                       | 40°C              | 60°C  |
|           |                                         |       | Min                         | Typ               | Max   | Min                         | Typ               | Max   |
| Enclosure | Section of the battery cables           |       | -                           | 25mm <sup>2</sup> | -     | -                           | 25mm <sup>2</sup> | -     |
|           | AC connection                           |       | -                           | Schuko CEE 7/4    | -     | -                           | Schuko CEE 7/4    | -     |
|           | Protection degree                       |       |                             | IP21              |       |                             | IP21              |       |
|           | Dimensions                              |       | 305x195x105 mm              |                   |       | 305x195x105 mm              |                   |       |
|           | Weight                                  |       | -                           | 7 kg              | -     | -                           | 7 kg              | -     |

## Dimensions



**WESTERN CO.**

Via Pasubio, 1/3 – San Benedetto del Tronto (AP)

TEL.: +39 0735 .751248m Fax: +39 0735 .751254