

# WI400/WI800/WI1200

## [OFF-GRID INVERTERS]

### Code

WI400 - 12: 014960

WI800 - 12: 016099

WI1200 - 24: 015829

WI400 - 24: 014961

WI800 - 24: 016100

WI1200 - 48: 016106



## Descrizione prodotto

I **WI400**, **WI800** e **WI1200** sono inverter **DC/AC**, studiati per applicazioni isolate, ad alta affidabilità e con prestazioni professionali.

I prodotti sono stati sviluppati per generare 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 di 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 così un' autonomia di sistema superiore alla norma.

[eng]

## Product description

**WI400**, **WI800** and **WI1200** are **DC/AC** inverters designed for off-grid applications, with high reliability and professional performance.

The products have been developed to produce a pure sinusoidal **AC** output waveform, with high conversion efficiency, up to 90%, and very low stand-by power consumption, less than 2.5W. These features are obtained through a hybrid configuration with toroidal output transformer and high frequency switching technology (HF Technology).

The energy saving function allows to reduce consumption significantly if the power of the load connected to the inverter is very low, ensuring greater system autonomy.

[fra]

## Description du produit

Les modèles **WI400**, **WI800** et **WI1200** sont des onduleurs **CC/CA** conçus pour applications en sites isolés et à grande fiabilité et performances professionnelles.

Ces produits ont été développés pour générer une forme d'onde sinusoidale pure avec une efficacité de conversion élevée, jusqu'à 90%, et une très faible consommation en veille, inférieure à 2,5W.

Ces caractéristiques sont obtenues grâce à une configuration hybride avec transformateur de sortie toroïdale et une technologie de commutation à haute fréquence (HF technology).

La fonction d'économie d'énergie permet de réduire la consommation de manière décisive en cas de manque de charge connectée, garantissant une plus grande autonomie du système.

## Caratteristiche prodotto



AC pure sine wave output



Energy Saving function



Protections:  
Low voltage output disconnect  
Over-temperature  
Short circuit and AC overload



IP20 metal box

## [eng] Product features



Continuous power:  
400/800/1200 VA,  
230V, 50Hz



12/24/48V battery



Power switch

## [fra] Caractéristiques du produit



90% maximum inverter efficiency



LED indicators



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

## Tabella Compatibilità WI

## [eng] WI Compatibility Table

## [fra] Tableau de compatibilité WI



Model: WI400

Version	PWM	MPPT	SEHM
12V	ALL	ALL	ALL
24V	ALL	ALL	ALL



Model: WI800

Version	PWM	MPPT	SEHM
12V	ALL	ALL	ALL
24V	ALL	ALL	ALL

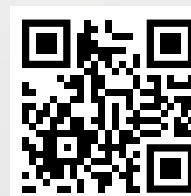


Model: WI1200

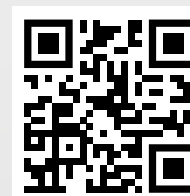
Version	PWM	MPPT	SEHM
24V	ALL	ALL	ALL
48V	WR60	WRM30+	ALL



USER MANUAL  
WI400



USER MANUAL  
WI800



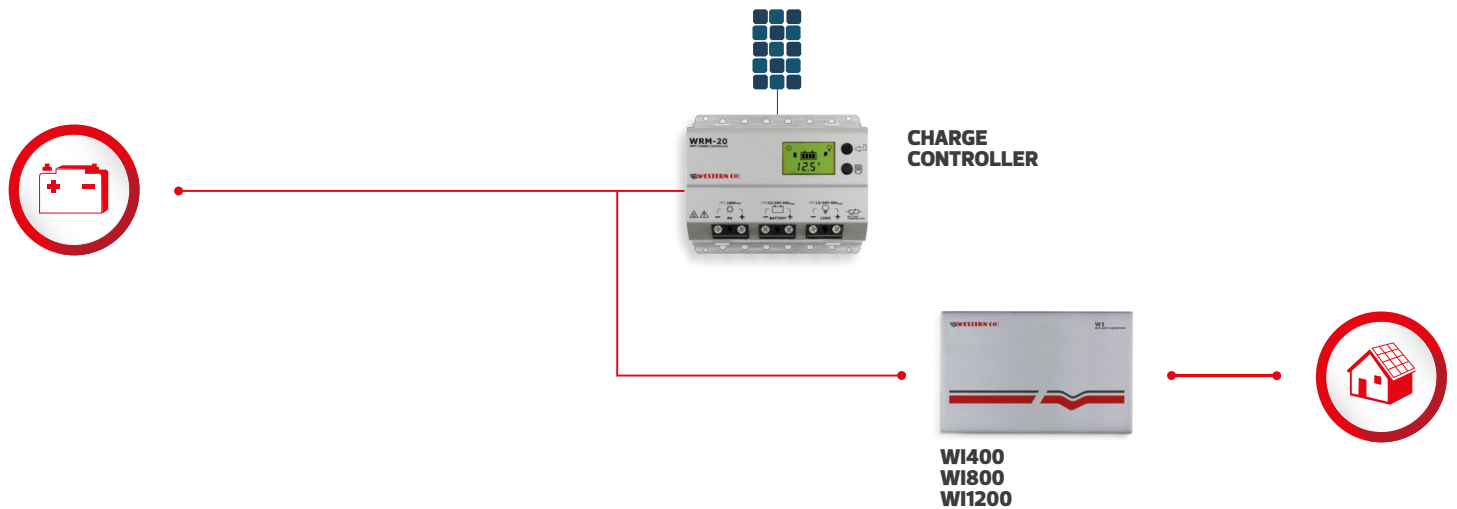
USER MANUAL  
WI1200

**Schema logico**

[eng]  
Logic diagram

[fra]  
Schéma logique

# WI400/WI800/WI1200



**Caratteristiche elettriche**

[eng]  
Electrical specifications

[fra]  
Fonctionnalités électroniques

	WI400-12			WI400-24		
	Min	Typ	Max	Min	Typ	Max
<b>Output power</b>	-	400VA	700W	-	400VA	400W
<b>Battery voltage</b>	9.2V	12.0V	17.0V	18.4V	24.0V	34.0V
<b>Output voltage (true sinusoidal)</b>	-	230V ± 3%	-	-	230V ± 3%	-
<b>Output frequency</b>	-	50Hz ± 0.1%	-	-	50Hz ± 0.1%	-
<b>Efficiency</b>	-	90%	-	-	90%	-
<b>Self-consumption in stand-by mode</b>	-	2.5W	-	-	2.5W	-
<b>Load activation/energy saving</b>	-	30W/20W	-	-	30W/20W	-
<b>Threshold alert for low Battery</b>	-	11.0V	-	-	22.0V	-
<b>Shutdown threshold for low battery</b>	-	10.5V	-	-	21.0V	-
<b>Reactivation threshold from low battery</b>	-	12.5V	-	-	25.0V	-
<b>Internal over-temperature alarm</b>	-	55°C	-	-	55°C	-
<b>Operating temperature</b>	-40°C	-	60°C	-40°C	-	60°C
<b>Battery wires cross section</b>	10mm <sup>2</sup>					
<b>AC output connection</b>	Schuko (CEE 7/4)					
<b>Protection degree</b>	IP21					
<b>Weight</b>	3.5Kg					
<b>Dimensions</b>	230x130x85mm					

	WI800-12			WI800-24		
	Min	Typ	Max	Min	Typ	Max
Output power	-	800VA	1600W	-	800VA	1600W
Battery voltage	9.2V	12.0V	17.3V	18.4V	24.0V	34.0V
Output voltage (true sinusoidal)	-	230V ± 3%	-	-	230V ± 3%	-
Output frequency	-	50Hz ± 0.1%	-	-	50Hz ± 0.1%	-
Efficiency	-	94%	-	-	94%	-
Self-consumption in stand-by mode	-	5W	-	-	5W	-
Load activation/energy saving	-	30W/20W	-	-	30W/20W	-
Threshold alert for low battery	-	10.9V	-	-	21.8V	-
Shutdown threshold for low battery	-	9.2V	-	-	18.4V	-
Reactivation threshold from low battery	-	12.5V	-	-	25.0V	-
Internal over-temperature alarm	-	55°C	-	-	55°C	-
Operating temperature	-40°C	-	60°C	-40°C	40°C	60°C
Battery wires cross section	25mm <sup>2</sup>					
AC output connection	Schuko (CEE 7/4)					
Protection degree	IP21					
Weight	7Kg					
Dimensions	305x195x105mm					

	WI1200-24			WI1200-48		
	Min	Typ	Max	Min	Typ	Max
Output power	-	1200VA	2000W	-	1200VA	2400W
Battery voltage	18.4V	24.0V	34.0V	36.8V	48.0V	68.0V
Output voltage (true sinusoidal)	-	230V ± 3%	-	-	230V ± 3%	-
Output frequency	-	50Hz ± 0.1%	-	-	50Hz ± 0.1%	-
Efficiency	-	94%	-	-	94%	-
Self-consumption in stand-by mode	-	8W	-	-	8W	-
Load activation/energy saving	-	30W/20W	-	-	30W/20W	-
Threshold alert for low Battery	-	21.8V	-	-	43.6V	-
Shutdown threshold for low battery	-	18.4V	-	-	36.8 V	-
Reactivation threshold from low battery	-	25.0V	-	-	50.0V	-
Internal over-temperature alarm	-	55°C	-	-	55°C	-
Operating temperature	-40°C	-	60°C	-40°C	-	60°C
Battery wires cross section	25mm <sup>2</sup>					
AC output connection	Schuko (CEE 7/4)					
Protection degree	IP21					
Weight	11.5Kg					
Dimensions	305x195x105mm					