PowerWalker Inverter 5000 Hybrid

Inverter / Charger System

5000VA Inverter with Pure Sine Wave

High Performance Long Backup Power Solution

Built-in 35A super charger

LCD display for status view and Inverter settings

Isolated Input/Output design for max. safety operation

Item-No. 10120213

Terminal IN / OUT

Pure Sine Wave

LCD Display

Generator support

Product Features

The PowerWalker Inverter 5000 Hybrid is energy saver and backup power solution. It accepts three sources of input energy – AC Mains, Solar Panel and Batteries. It supports generator input. It automatically switches between nine operation modes to optimize the energy consumption!

PV System

AC Grid or Generator

Batteries

PowerWalker Inverter 5000 Hybrid

AC Loads

Back View
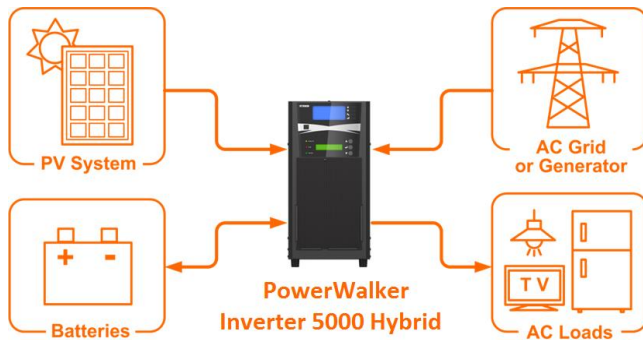
Features

- Pure Sine Wave for wide range of applications and harsh environment
- Energy Saving Solution for home or office application
- Batteries can be charged by mains or PV system
- Built-in 35A super charger
- User selectable for accepting wider input voltage range
- High efficient DC-to-AC conversion minimizing energy loss
- LCD display for status view and Inverter settings
- Fulfils the demands of industrial environment.

LCD Display, buttons

Technical Details

Product Features

Capacity	5000VA / 4200W

AC Input

Voltage	220/230/240VAC
Voltage Range	170-280VAC (Normal Range) 90-280VAC (Wide Range)
Frequency	50 or 60Hz
Frequency Range	40 – 65 Hz

AC Output

Voltage	230VAC
Voltage Regulation (Battery Mode)	±10 % rms
Frequency	50 or 60Hz
Freq. Regulation (Battery Mode)	± 1 Hz
Short-circuit protection	40A Circuit Breaker
Waveform	Pure Sine Wave
Transfer Time	10ms (normal range) 20ms (wide range)
Power Factor	0.84 in Inverter Mode or as mains

DC Input (Solar Panel)

MPP Traker	1
Max. Input DC Power	4500W
Initial Feed-in Voltage	160VDC
Working Voltage Range	130-300VDC
Full Rating Voltage Range	185-300VDC
Max. DC Current	24.3A
Max. DC Short-circuit Current	30.4A

Efficiency

AC to AC (Bypass)	>95%
DC to AC (Inverter)	>95%

Charger

Charger current	20A or 35A selectable
DC Voltage	48V
Start-up Batter Voltage	>35VDC

Connections

Outlets	Terminal outlet
Inlet	Battery Terminal Block PV String Input Connectors AC Input Terminal Block
Communication	USB

Product Details

Dimensions	192,4 x 370,2 x 456 mm
Colour	Black
Weight	17,2 kg
Model Code	Inverter 5000 Hybrid

Environment

Temperature	0°C – 45°C
Humidity	5 – 95 % RH (non-condensing)
Noise Level	< 60dB

Package Content

Package Content	PowerWalker Inverter 5000 Hybrid, manual

Logistic Data

Giftbox Language	EN
Manual Language	EN
Dimension/Giftbox	
Weight/Giftbox	
Pieces/Carton	1
Pieces/Palette	
Item Number	10120213
EAN	4260074976830
Warranty	24 Month

PowerWalker is a brand of:
BlueWalker GmbH
Martin-Buber-Strasse 12 • D-41470 Neuss • Germany

Phone: +49 (0) 2137 / 92 98 73 • Fax: +49 (0) 2137 / 78 73 925
info@bluewalker.eu • www.bluewalker.eu • www.powerwalker.com

Operating Modes

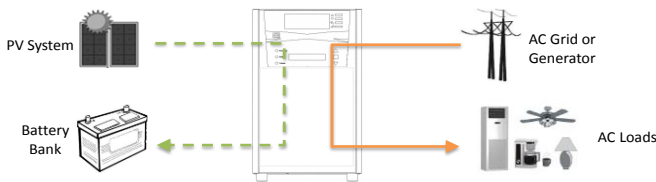|	☀ Strong PV Power	⛅ Less PV Power	☁ No PV Power	✖ No Load
AC Input Power Present	**LINE-PV** or **SOLAR-PV**	**LINE-HYBRID** or **SOLAR-HYBRID**	**LINE MODE**	
AC Input Power Absent	**INV-PV**	**INV-HYBRID**	**INV MODE**	**CHARGE MODE**

Automatically switches between modes accordingly to the operating conditions

Solar-PV
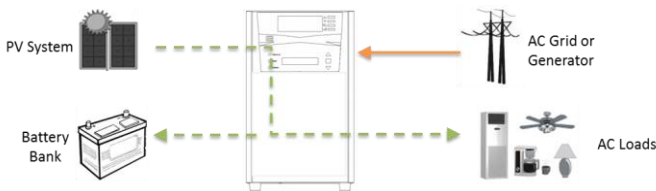
PV is strong enough to support all loads and charge batteries.
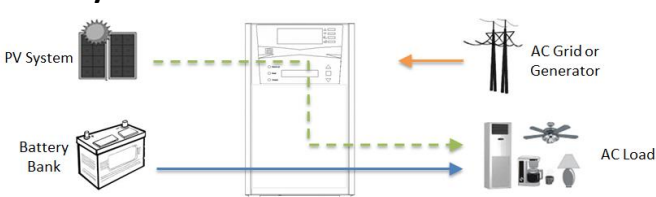
Line-PV Mode

PV is strong enough to charge batteries, but load requires energy from the grid
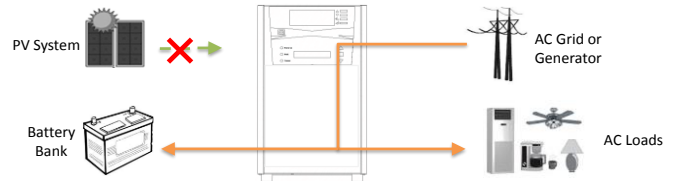
Line-Hybrid

Weak PV uses all energy to charge batteries, additionally it is supported by the grid
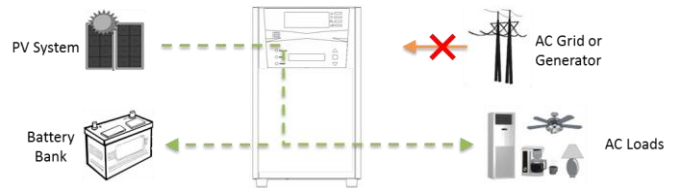
Solar-Hybrid

Battery fully charged and PV is providing energy to loads with support of energy from battery

Line Mode

PV is not producing energy, mains charge battery and support AC loads

INV Mode

Mains failure, PV has enough energy to support AC loads and charge battery
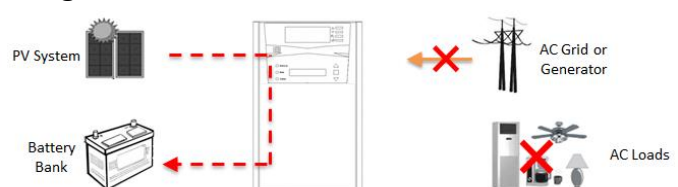
INV-Hybrid

Mains failure, energy is taken from PV and supplied with battery

INV Mode

Mains failure, PV not available, inverter is supporting loads from battery

Charger Mode

Device works as charger for battery bank