

SOLO 100 / 200 / 250

PV Inverter Series

100 kW, 200kW and 250 kW

Woodward IDS Switzerland AG
Hagenholzstrasse 71
CH-8050 Zürich

Tel: +41 44 562 06 00
Fax: +41 44 562 06 06
sales-zuerich@woodward.com
www.woodward.com

- Wide PV Voltage Input Range: 300V...850V
- PV Inverter with Highest Efficiency: 98.5%
- Minimal Heat Dissipation in the Installation Room
- Enhanced Temperature Range: -25°C to +55°C
- Extended Elevation up to 3500m above Sea Level
- Outdoor Version with Protection Class IP 55

The Woodward IDS SOLO photovoltaic inverter series with liquid cooling is used in grid connected photovoltaic applications.

To minimize power loss during the conversion process, the SOLO inverter's switching technology uses IGBTs.

The inverters are available with up to three MPPT (maximum power point tracker) inputs, to optimize energy yield.

Woodward IDS technology is approved in many years of grid feed-in applications especially in weak grid regions.

All components and control algorithms have proven high efficiency and stability under demanding conditions. The SOLO inverter is delivered fully parameterized and ready for use.



Indoor Version IP54

Features

- Night time standby with almost zero power loss
- Low AC- noise (white noise) due to wide-band pulse width modulation
- Highly reliable due to advanced control strategies
- Monitoring and diagnostics on colour touch screen and via internet (Woodward IDS Web Portal)
- Integrated data logger collects all important operation data
- Maximum Power Point Tracking (MPPT) for up to 3 separated PV fields
- Automatic start up and shut down



Outdoor Version IP55

PV INVERTER

SOLO 100 / 200 / 250

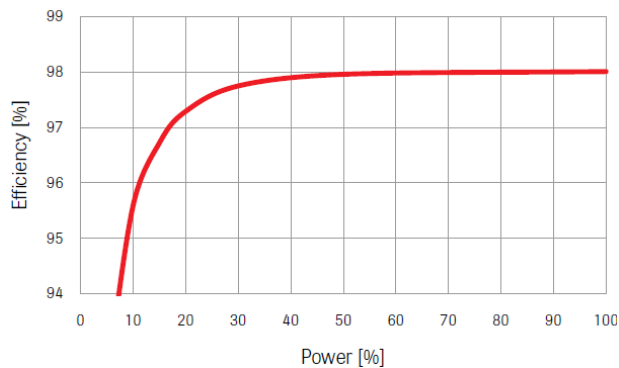


Broad Number of Options for SOLO Inverters

- Extended ambient temperature range (-25°C... +55°C)
- Unique on the market: Extended version for installation height up to 3500 m above sea level
- Communication interface: TCP IP, Modbus, GSM or line modem
- Remote Diagnostics System (RDS) 24h/7d increases the availability of the system
- Customer tailored service and maintenance contract
- All grounding concepts possible on request
- 4-Step power limitation (commands by grid operator)

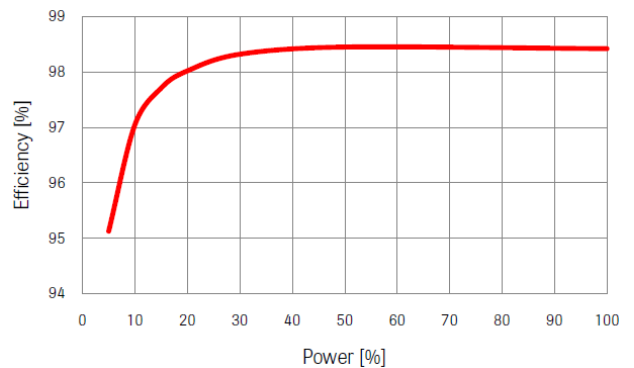
High Efficiency

Efficiency of SOLO 250 with 3 step-up converters



Euro eta: 97.7%

Efficiency of SOLO 250 without step-up converters



Euro eta: 98.2%

Note:

Maximum Power Point Tracking (MPPT):

The up to three individual power point trackers (PPT) consist of step-up converters and permit optimized power point tracking of separate PV-fields over a wide voltage range (50V ... 800V).

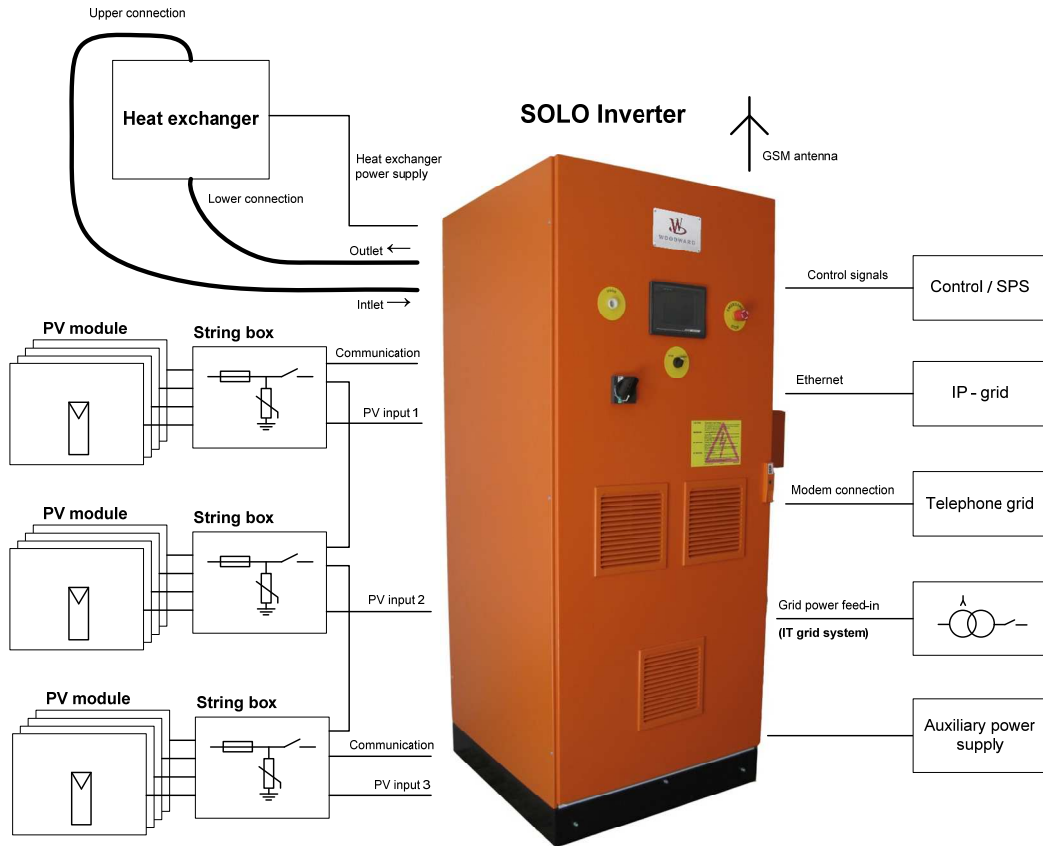
Inverters without individual trackers (no step-up-converters) find the maximum power point by adjusting the DC-voltage.

PV INVERTER

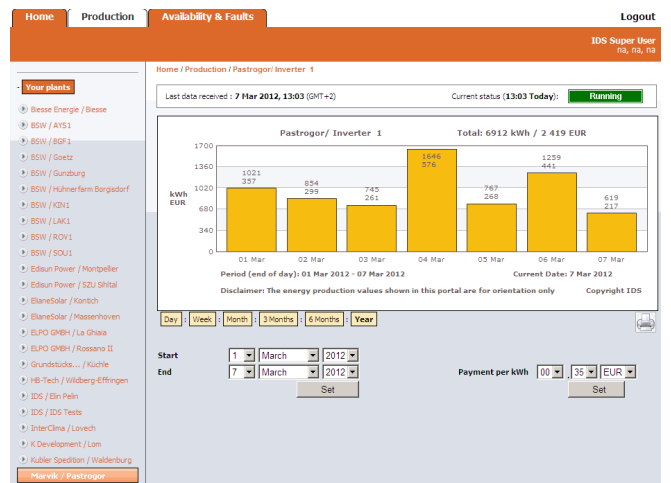
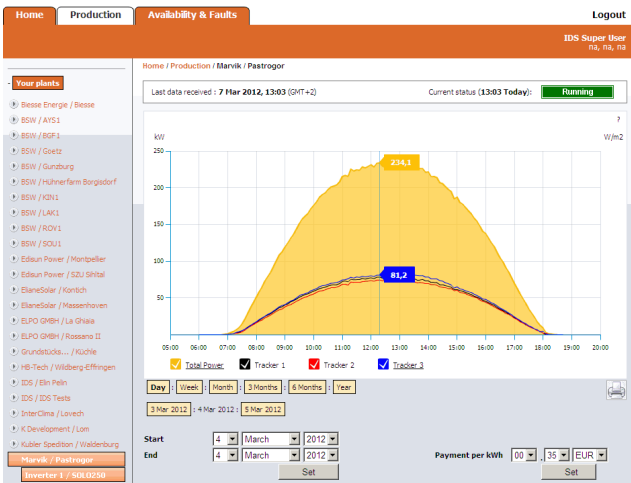
SOLO 100 / 200 / 250



SOLO System



Woodward IDS Web Portal



Woodward IDS Web Portal shows inverter's production / earning for a day / week / month / 3 month / 6 month / year

- Easy www access to all your PV inverters
- 24 h-monitoring of each SOLO inverter
- General information about your plant(s) / inverter(s)
- Energy production for a selected period

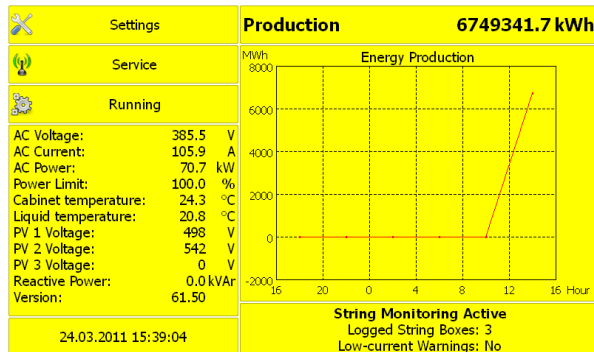
- Broad availability and fault list
- Energy production of plant / inverter / tracker
- Overlaid weather graphics – sun irradiance, temperature (panel and ambient), wind speed

PV INVERTER

SOLO 100 / 200 / 250



Touch Screen Panel as Man-Machine Interface



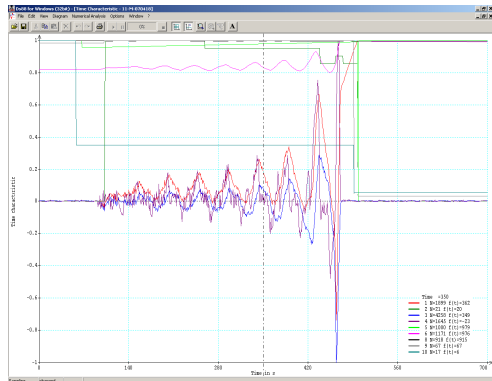
- Configurable display of energy production
- Comfortable parameter configuration
- Efficient built-in diagnostics functions
- Data logger readout and built-in data analysis for remote diagnostics
- Several access levels

Main Page of integrated Touch Screen

Remote Diagnostics (RDS), 24 hours / 7 days possible

The Woodward IDS SOLO inverter is designed to work maintenance free over the lifetime in the specified wide working range. Nevertheless experience with the grid quality shows that extreme situations can occur.

Woodward IDS offers a full service to guarantee the highest possible system availability. You do not have to worry about warning messages of your inverter. Woodward IDS experts continuously monitor your system remotely and start adequate actions. Many problems can even be diagnosed before a system actually fails.



RDS monitoring

- View your inverter in real time
- Behaviour analysis
- Broad availability and fault list
- Diagnostics
- Technical investigation

Available Versions

Indoor Types	Outdoor Types	AC-Nominal Power	Number of Inputs	Number of MPP Trackers	Max. DC-Current per Input
SOLO 100	SOLO 100 EXT	100 kW	2	2	125 A
SOLO 200	SOLO 200 EXT	200 kW	3	3	170 A
SOLO 250	SOLO 250 EXT	250 kW	3	3	220 A

SOLO 100 / 200 / 250 indoor and outdoor types are also available without individual trackers.

Subject to change, March 2012

Ordering Information

For technical, commercial and ordering information from Western Europe and the rest of the world please contact us at:

Woodward IDS Switzerland AG
 Hagenholzstrasse 71
 CH-8050 Zürich / Switzerland
 sales-zuerich@woodward.com
 Tel./ Fax : +41 44 562 06 00 / 06

For technical, commercial and ordering information from Eastern Europe please contact us at:

Woodward IDS Bulgaria EOOD
 47 Cherny Vrah Blvd.
 1407 Sofia / Bulgaria
 sales-sofia@woodward.com
 Tel. / Fax : +359 2 960 88 00 / 08