

# IDS<sup>®</sup> PV INVERTER

IDS<sup>®</sup> SOLO D 1000 kW

Central Inverter

D Series

**Preliminary**  
**New: Up to 1100 V  
 PV Input**

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- New Technology (patent pending)
- Wide PV Voltage Input Range: 500V...1100V
- PV Voltage Range 600V...1200V available
- PV Inverter with high Efficiency: 98.7%
- Minimal Heat Dissipation in the Installation Room
- Enhanced Temperature Range: -25°C to +55°C
- Extended Elevation up to 3500m above Sea Level available

The 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 and to optimize total efficiency, the SOLO1000 D inverter has 2 MPPT (maximum power point tracker) inputs.

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

## Features

- Night time standby without 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 (IDS Portal)
- Integrated data logger collects all important operation data
- Maximum Power Point Tracking (MPPT)
- Four separately switchable PV Inputs
- Automatic start up and shut down



# IDS<sup>®</sup> PV INVERTER

## SOLO 1000 D

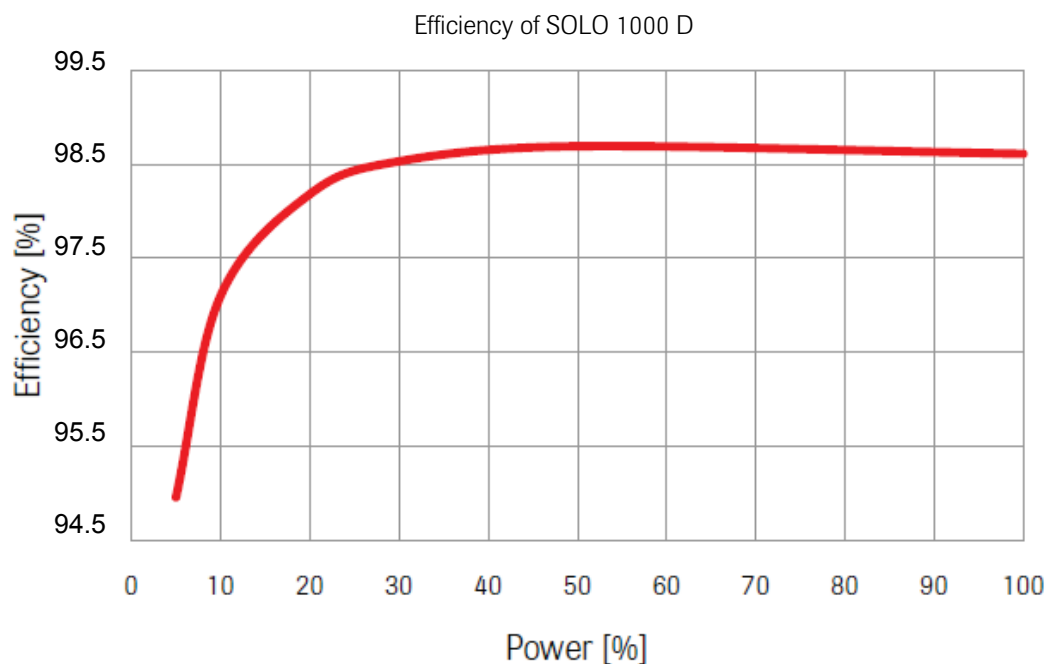
### D Series



#### 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, CAN, Interbus, GSM or line modem
- Customer tailored service and maintenance contract
- Different PV grounding concepts possible
- Power limitation due to commands by grid operator

#### High Efficiency



Total efficiency: Euro eta: 98.3%

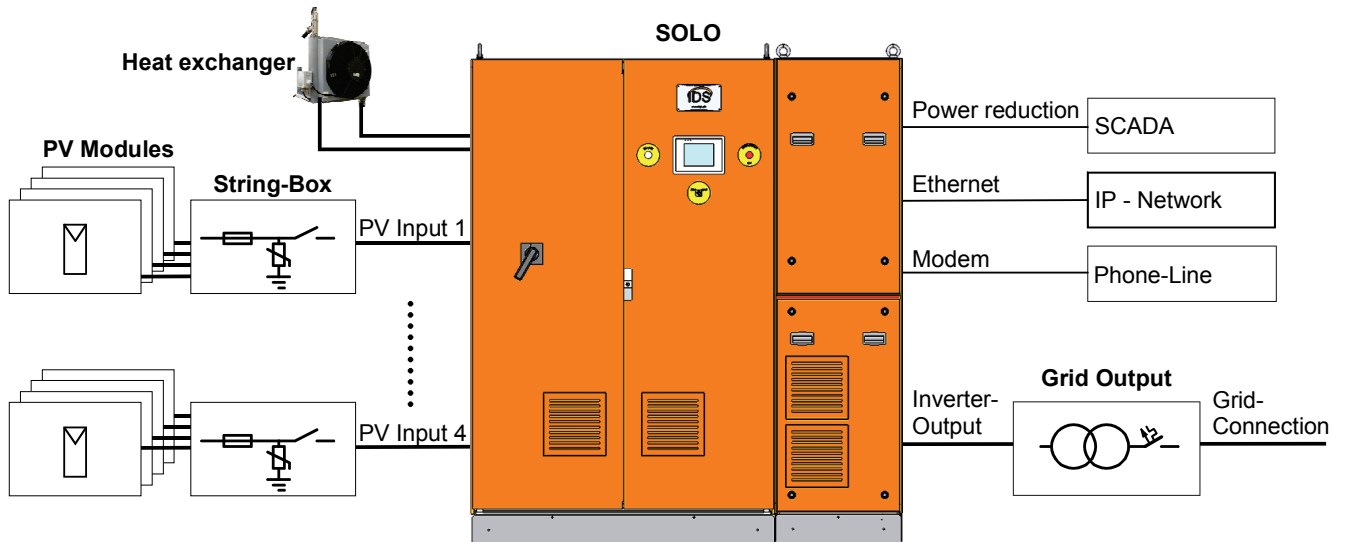
# IDS® PV INVERTER

## SOLO 1000 D

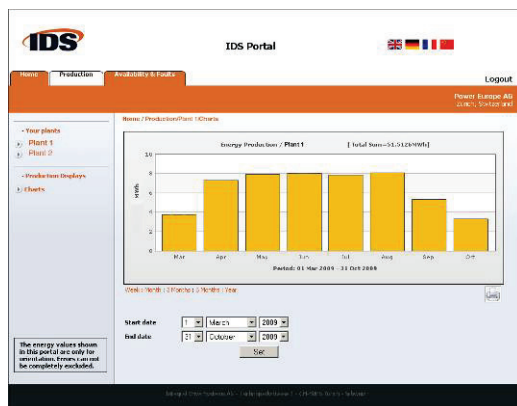
### D Series



### IDS® SOLO System



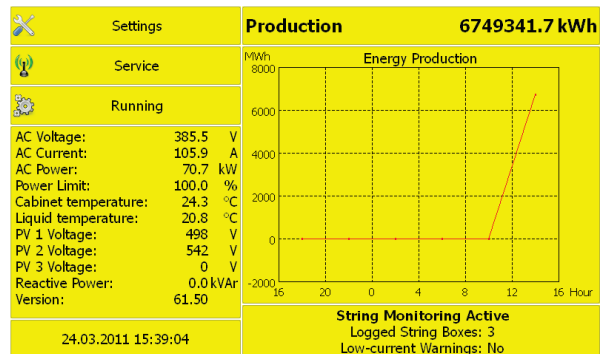
### IDS® Portal and Man-Machine Interface



IDS Portal shows production of a PV Inverter

#### IDS Portal

- 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 during a selectable period
- Availability and fault list



Main Page of integrated Touch Screen

#### 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

# IDS® PV INVERTER

## SOLO 1000 D

### D Series



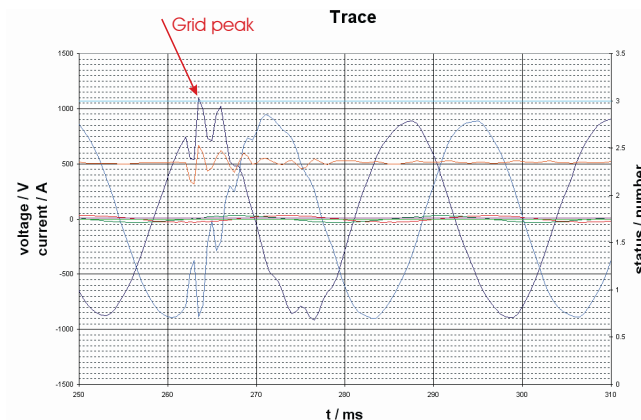
#### Remote Diagnostics, 24 hours / 7 days possible

The 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.

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



IDS - Remote Diagnostics Center



Example of a Fault Record with Grid Voltage Peaks

#### Available Versions

Type	AC-Nominal Power	Inputs	Max. DC-Current per Input
SOLO 1000 D	1000 kW	2 MPPT with 4 sections	4 x 280 A

Furthermore inverters for 100 kW, 250 kW and 500 kW for indoor and outdoor application are available.

IDS can deliver as well complete SOLO Inverter Stations for 500 kW, 750 kW, 1000 kW and 1500 kW.

For further information please visit [www.ids.ch](http://www.ids.ch)

Subject to change, Mai 2011

#### Ordering Information

For technical or commercial information please contact the IDS sales office

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