

# SOLO Station 1000-2

String PV Station 1000 kW  
with High Voltage Transformer

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## Datasheet

Type	SOLO Station 1000-2	ISS-10-20
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### Grid Data

Nominal AC power	$P_{AC}$	1000 kW
Nominal AC current	$I_{AC}$	28.8 A
Grid voltage	$U_{AC}$	20kV; +10 % / -15 %
Grid frequency	$f_{AC}$	50 Hz / 60 Hz; $\pm 10$ %
Surge arrester		Yes
Harmonic distortion	%THD ( $I_{AC}$ )	< 3 % (at maximum AC power)
Power factor	$\cos \varphi$	0.95 capacitive ... 0.95 inductive
Efficiency (without transformer)		98.5 %
Euro eta (without transformer)		98 %

### Photovoltaic Data

Nominal PV power	$P_{PV}$	1016 kW
Control strategy		Maximum Power Point Tracking (MPPT)
Number of PV input trackers DC voltage range for MPPT		2 600 VDC ... 1200 VDC
Maximum permissible PV voltage	$U_{PVmax}$	1200 VDC
Voltage ripple (PV input)	$U_{pp}$	< 3 %
Surge protection		Type 2 (monitored)
Grounding		Floating (optional connection to PV input)

### Communication and Control Interface

Communication interface	Ethernet (optional: GSM- or line modem)
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### Options

Power reduction control / BDEW regulations, further on request
Connecting PV(-) or PV(+) input to ground (inclusive earth current measurement)
Communication: GSM- or line modem
Energy counter

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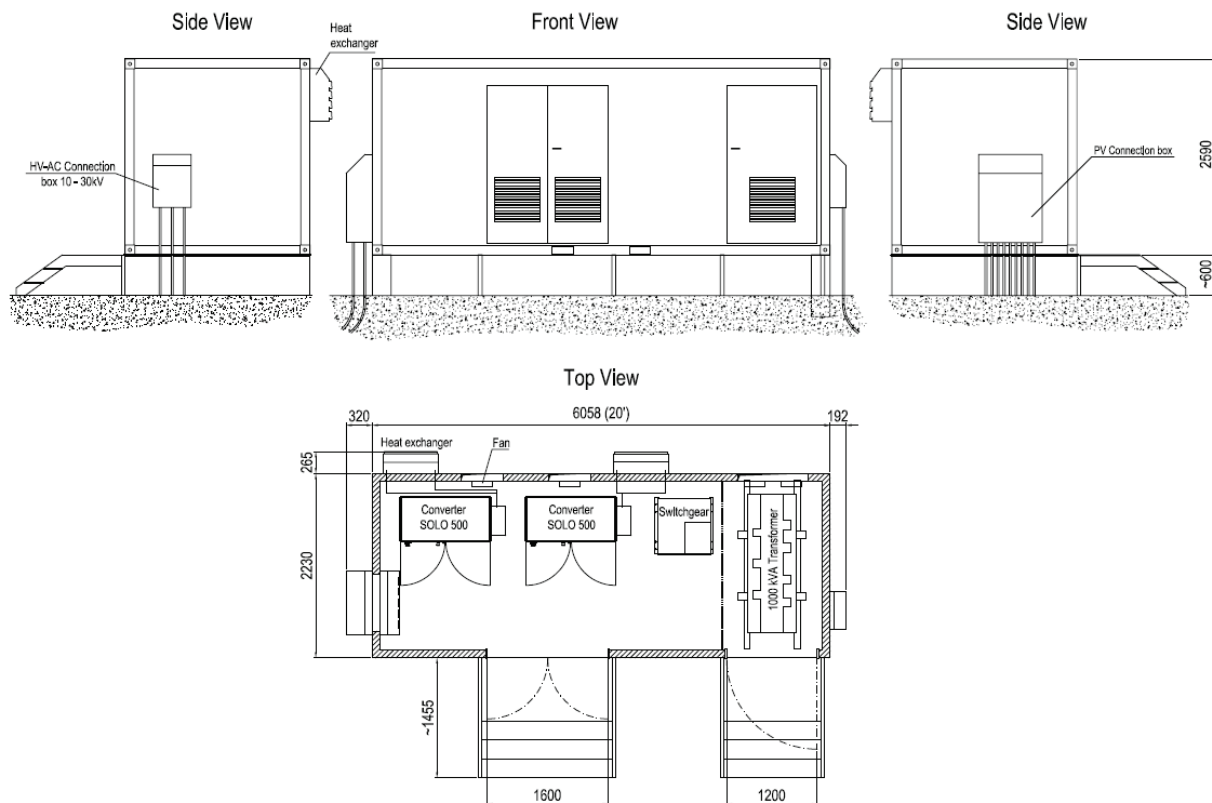


## Container and Ambient Conditions

Dimensions (without foundation)	L x W x H	6058 x 2230 x 2590 mm
Foundation height	H	600 mm (depending on environmental conditions)
Weight	m	8600 kg (approx.)
Ambient temperature range	T <sub>amb</sub>	Standard: -20 °C ... +45 °C; Extended: -50 °C ... +60 °C
Humidity		15 ... 95 %
Protection type according to EN 60529		IP54 (further on request)
Maximum elevation above sea level		Standard: 1'000 m (above derating); Extended: 5'000 m
Cooling		Liquid cooled with external heat exchanger
Cooling fluid		Standard: Water +40 % glycol, frost protection down to -25 °C Extended: Water +50 % glycol, frost protection down to -50 °C

## Standards of Converter

CE conformity / EMC		Yes / EN 61000-6-2, EN 61000-6-4
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Subject to change, June 2010

## Ordering Information

For technical or commercial information please contact the IDS sales office

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