

Displays for the photovoltaics



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Solar energy made visible

With future-orientated technology you invest in renewable energies. But how does the public become aware of your commitment to the environment if the photovoltaic system is not visible on the roof?

With Siebert digital displays you make your solar system and its performance visible – in the foyer, in the entrance hall or public appeal outdoors, and you have the efficiency of your solar system at a glance.

For photovoltaic systems in public buildings or solar systems for commercial use, the visualization of the performance makes sense anyway: purpose and ecological benefits of the investment become transparent and the information about the avoided carbon dioxide levels (CO₂) provides valuable educational work.

For each photovoltaic system

Siebert digital displays are suitable for any photovoltaic system and can also be connected subsequently to existing systems.

The following connections are available as standard:

- Impulses of an electric meter (S0 Interface)
- Serial interface of the inverter or data logger (RS232 or RS485)
- Ethernet interface
- WLAN

LED technology

The latest LED technology is used in Siebert digital displays. LED displays distinguish themselves through their high luminous power and durability. Their big viewing angle allows convenient and reliable reading even when looked at from the side.

The LED digits light actively and draw spontaneously – differently acting to passive LCD displays – the attention of the viewer .

Easy parameterization

An intuitively software allows easy and fast parameterization of the displays. Furthermore the series XC440/XC450, XC460/XC470, XC480 and XC445/XC455 can be parameterized via Bluetooth.

Innovative technology

Siebert digital displays are based on decades of experience in the development and manufacturing of digital information systems. The systems are continuously developed further, new technical standards are implemented as close as possible to the products. Downward compatibility is always a target.

Series

XC410

Elegance in
glass and stainless steel

The displays of the XC410 series are representative objects with a clear design language. Glass and stainless steel emphasize the high standard. The frameless and flat design, together with white LEDs, gives off a special elegance.

Our photovoltaic system generates

ENERGY FROM SUNLIGHT

Current performance

3527 W

Total energy

22002 kWh

CO₂ reduction

16107 kg

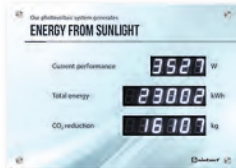
siebert

Series XC410

Standard designs



ST1



ST2



ST3

Different graphic designs

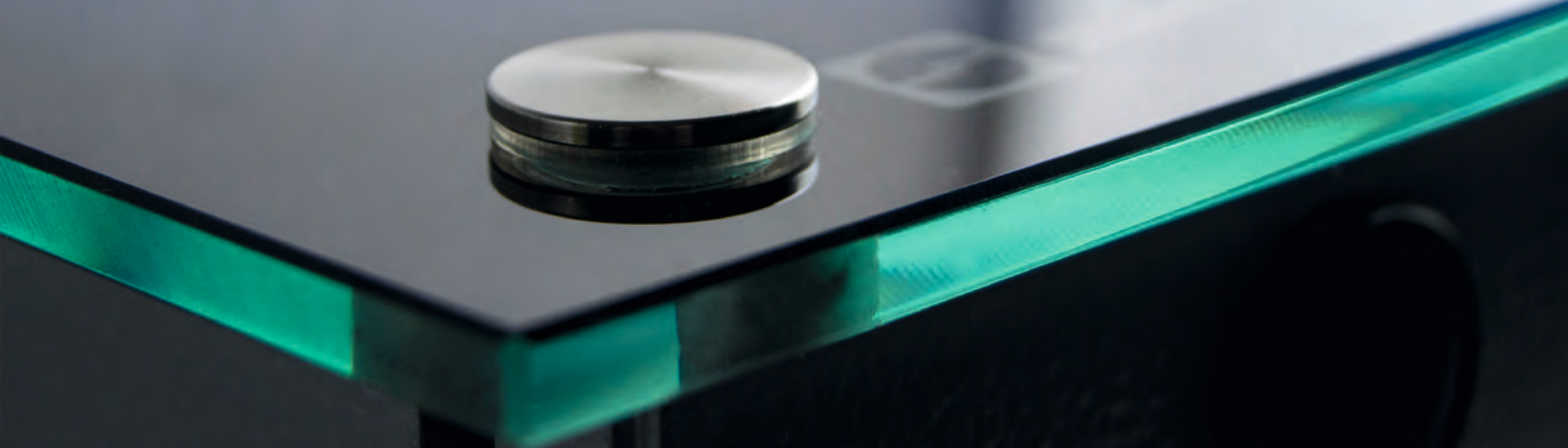
The illustrated graphic designs of the XC410 series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics.

Individually designed graphics are also possible. For this, our own design studio is your competent partner.

Labeling variants

You can choose between five labeling variants — page 34.



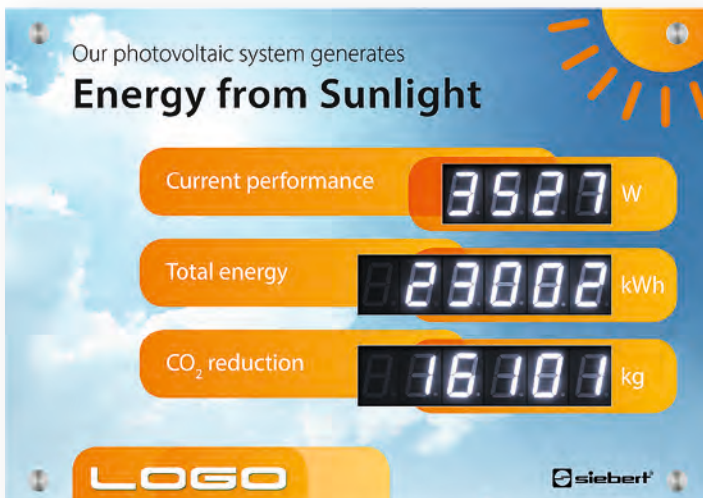
Technical data

Type code	XC410-SAW-N-01
LED display character height	25 mm
LED color	white
Upper LED display	4 digits
Middle LED display	6 digits
Lower LED display	6 digits
Measures W x H x D	420 x 297 x 33 (41) mm
Material	glass/stainless steel, basic body steel sheet varnished
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40
Weight	approx. 4 kg

Values in () are valid for devices with Ethernet or WLAN interface

Options

Ethernet interface	XC410-xxx-x-05
WLAN	XC410-xxx-x-07
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓



Series

XC420

Compact digital displays
with innovative technology

A special feature of the XC420 series is the compact design: with a housing, even smaller than the size of a sheet A3 format, it finds the right place everywhere.

Solar energy

Current performance/kW
2492

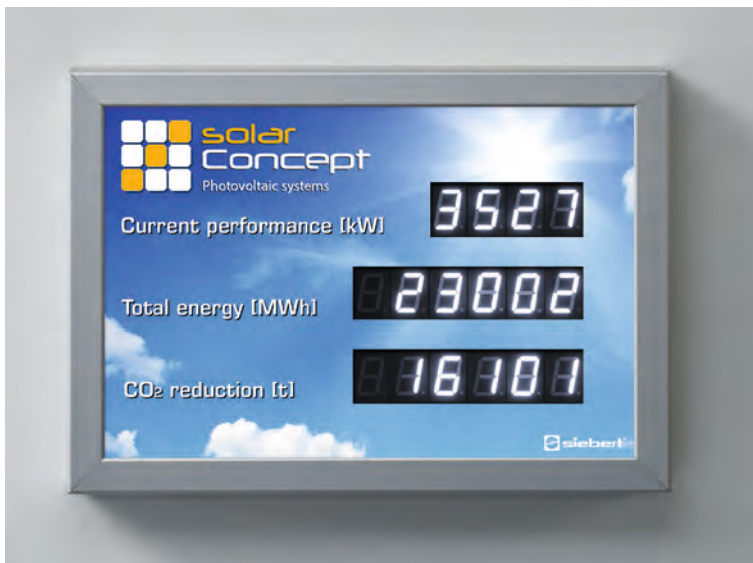
Total energy/MWh
52487

CO₂ reduction/t
11553

siebert

Energy network

Series XC420



Innovative technology

Control is possible via the digital interface of the inverter or a data logger, as well as with the pulses of an electric meter. Despite the power supply unit integrated in the display the dimensions of the display are very compact.

Suitable for outdoor use

Devices which are used outdoors have screwed housing frames and offer protection against vandalism.

Different graphic designs

The illustrated graphic designs of the XC420 series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics.

Individually designed graphics are also possible. For this, our own design studio is your competent partner.

Labeling variants

You can choose between five labeling variants — page 34.

Standard designs



ST1



ST2



ST3

Technical data

Type code	XC420-SAR-N-01
LED display character height	25 mm
LED color	red
Upper LED display	4 digits
Middle LED display	6 digits
Lower LED display	6 digits
Measures W x H x D	400 x 280 x 62 mm
Material	aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40 (IP54)
Weight	approx. 3 kg

Values in () are valid for devices with the option 'equipment package for outdoor use'

Options

Ethernet interface	XC420-xxx-x-05
WLAN	XC420-xxx-x-07
LED color white	XC420-SAW-N-01
Equipment package for outdoor use	XC420-xxx-A-xx
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓

Series

XC440

XC450

Representative digital displays
with a clear design language

With their exclusive design Siebert digital displays of the XC440/XC450 series awake the interest of the public to communicate the commitment of the investor. Together with the slim aluminum housings the graphically sophisticated designs form an object which adapts itself harmoniously in the respective ambience.

An innovative feature is the LED display in modern SMD technology. With white luminous digits, an elegant typeface and extremely high brightness, it defines a new standard. The super bright digits are very well readable in the sunlight. An automatic brightness control adjusts the brightness to the ambient light.

RENEWABLE ENERGIES

Current performance: **6280 W**

Total energy: **42028 kWh**

CO₂ reduction: **29418 kg**

building technology
Manchester P2

Energy from sunlight

A photovoltaic system which generates 73.4 MWh electricity from sunlight annually is installed on the roof of the exhibition hall. This is about one quarter of the electricity consumed in the whole building complex. The solar system avoids the emissions of 65 t of carbon dioxide per year. The peak performance of the system is 76 kW.

Current performance: **2640 W**

Total energy: **2175 kWh**

CO₂ reduction: **1552 kg**

Energy from sunlight

Current performance: **233 kW**

Total energy: **23343 MWh**

CO₂ reduction: **14435 t**

EEC

siobert

Series XC440 Linea | Galeria | Quadro

The displays of the XC440 series are offered in 3 different designs – either designed as Linea with its classical horizontal format, Galeria with its dynamic vertical format or Quadro with its square design which offers a wide scope for individual design.

The XC440 series uses 25 mm high LED digits and allows reading distances up to 10 m.

Standard designs Galeria



GT1

GT2

GT3

Standard designs Linea

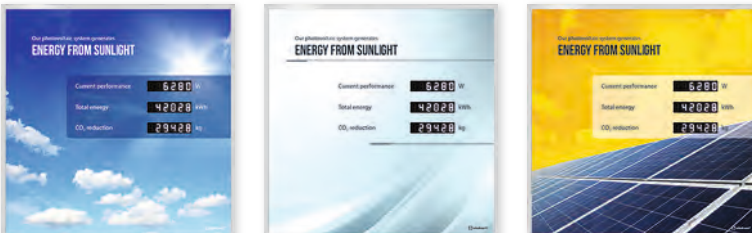


LT1

LT2

LT3

Standard designs Quadro



QT1

QT2

QT3

Automatic brightness control

An automatic brightness control adjusts the brightness to the ambient light.

Housings for outdoor use

Devices which are used outdoors, have screwed housing frames and offer protection against vandalism.

Different graphic designs

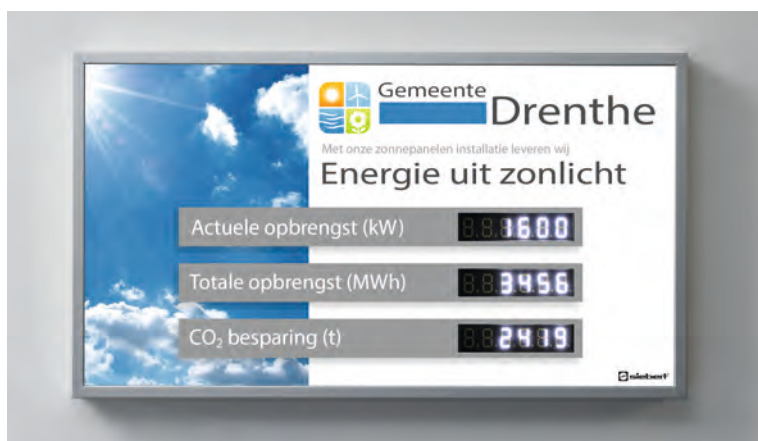
The illustrated graphic designs of the XC440 series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics.

Individually designed graphics are also possible. For this, our own design studio is your competent partner.

Labeling variants

You can choose between five labeling variants – page 34.





Technical data

Type code - Linea	XC440-LCW-N-01
Type code - Galeria	XC440-GCW-N-01
Type code - Quadro	XC440-QFW-N-01
LED display character height	25 mm
LED color	white
LED display	3 x 6 digits
Measures W x H x D - Linea	800 x 450 x 62 mm
Measures W x H x D - Galeria	450 x 800 x 62 mm
Measures W x H x D - Quadro	800 x 800 x 62 mm
Material	aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40 (IP54)
Weight - Linea / Galeria	approx. 7 kg
Weight - Quadro	approx. 11 kg

Values in () are valid for devices with the option 'equipment package for outdoor use'

Options

Ethernet interface	XC440-xxx-x-05
WLAN	XC440-xxx-x-07
LED color red	XC440-xxR-x-xx
Equipment package for outdoor use	XC440-xxx-A-xx
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓

Series XC450 Linea | Galeria | Quadro

The XC450 series uses 55 mm high LED digits. They are readable up to a distance of 20 m, but achieve even with a smaller viewing distance and in the outdoor application a higher grade of attention.

Standard designs Galeria



GT1

GT2

GT3

Standard designs Linea

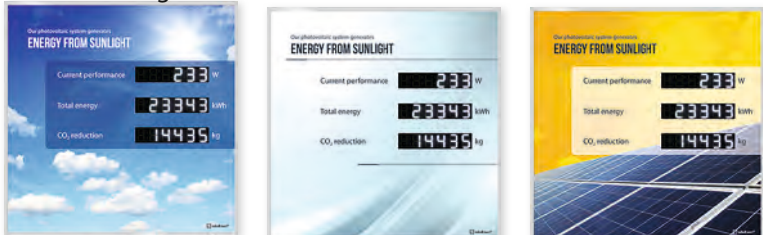


LT1

LT2

LT3

Standard designs Quadro



QT1

QT2

QT3

Housings for outdoor use

Devices which are used outdoors, have screwed housing frames and offer protection against vandalism.

Different graphic designs

The illustrated graphic designs of the XC450 series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics.

Individually designed graphics are also possible. For this, our own design studio is your competent partner.

Automatic brightness control

An automatic brightness control optimally adjusts the brightness to the ambient light.

Labeling variants

You can choose between five labeling variants — page 34.





Technical data

Type code - Linea	XC450-LCW-N-01
Type code - Galeria	XC450-GCW-N-01
Type v - Quadro	XC450-QFW-N-01
LED display character height	55 mm
LED color	white
LED display	3 x 6 digits
Measures W x H x D - Linea	1000 x 560 x 62 mm
Measures W x H x D - Galeria	560 x 1000 x 62 mm
Measures W x H x D - Quadro	1000 x 1000 x 62 mm
Material	aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40 (IP54)
Weight - Linea / Galeria	approx. 11 kg
Weight - Quadro	approx. 16 kg

Values in () are valid for devices with the option „equipment package for outdoor use“

Options

Ethernet interface	XC450-xxx-x-05
WLAN	XC450-xxx-x-07
LED color red	XC450-xxR-x-xx
Equipment package for outdoor use	XC450-xxx-A-xx
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓

Series

XC460

XC470

**Robust displays
for public areas**

The digital displays of the XC460/XC470 series are especially suitable for sites in public areas or in harsh environments. Their robust steel sheet housings offer a wide protection against external influences on the display.

Our photovoltaic system generates

Energy from sunlight

Current performance **003233 kW**

Total energy **023243 MWh**

Environment and future

© siebert

SOLAR ENERGY

for environment and future

Current performance **2880 W**

Total energy **682116 kWh**

CO₂ reduction **361553 kg**

© siebert

Sol4u

Series XC460 | XC470

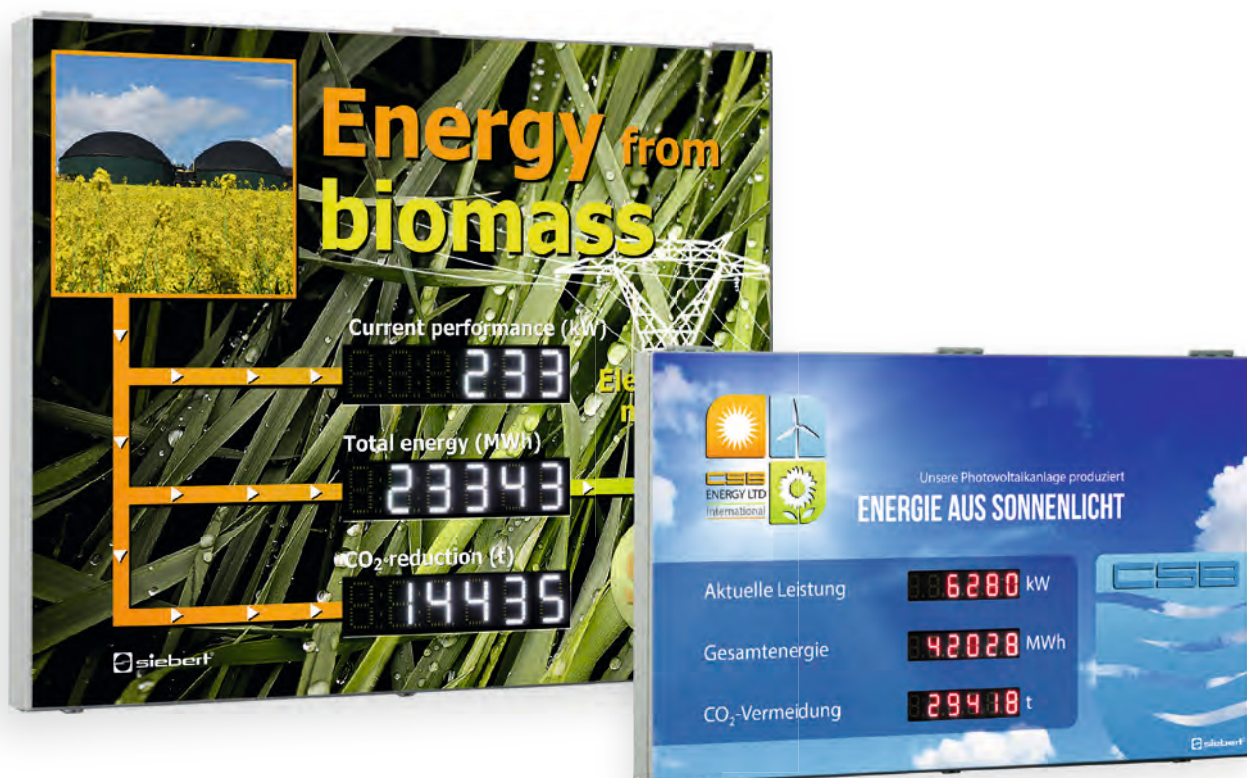
The XC460 series uses 25 mm high LED digits and allows reading distances up to 10 m.
The XC470 series uses 55 mm high digits. They are readable up to a distance of 20 m but achieve, even with a smaller viewing distance and in the outdoor application, a higher grade of attention.

Super bright LED display

An innovative feature is the LED display in modern SMD technology. With white luminous digits, an elegant typeface and extremely high brightness, they define a new standard.

The super bright digits are very well readable in the sunlight.

An automatic brightness control optimally adjusts the brightness to the ambient light.



Technical data

Type code	XC460-SBW-N-01	XC470-SBW-N-01
LED display character height	25 mm	55 mm
LED colour	white	white
LED display	3 x 6 digits	3 x 6 digits
Measures B x H x T	800 x 500 x 70 mm	1000 x 800 x 70 mm
Material	steel sheet varnished, front foil coated	
Power supply	100...240 V AC, 50...60 Hz	100...240 V AC, 50...60 Hz
Protection type	IP54 (IP65)	IP54 (IP65)
Weight	approx. 18 kg	approx. 32 kg

Values in () are valid for devices with the option 'equipment package for outdoor use'

Options

Ethernet interface	XC460-xxx-x-05	XC470-xxx-x-05
WLAN	XC460-xxx-x-07	XC470-xxx-x-07
LED colour red	XC460-xxR-x-xx	XC470-xxR-x-xx
Equipment package for outdoor use	XC460-xxx-A-xx	XC470-xxx-A-xx
1 customer logo on standard design	✓	✓
2 or 3 customer logos on standard design	✓	✓
Individual graphic design	✓	✓

Different graphic designs

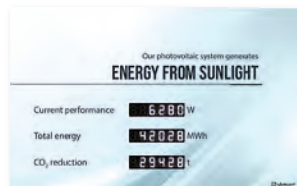
The illustrated graphic designs of the XC460/XC470 series are offered as standard designs. It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics. Individually designed graphics are also possible. For this, our own design studio is your competent partner.

You can choose between five labeling variants — page 34.

Standard designs XC460



ST1



ST2



ST3

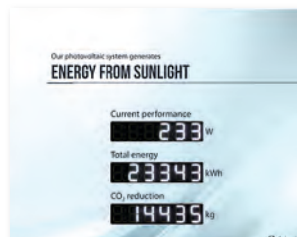


ST4

Standard designs XC470



ST1



ST2



ST3



ST4

Series

XC480

Design

in large format

The XC480 series combines a representative large size and individual design. The 100 mm high digits are especially suitable for long reading distances up to 40 meters.

SOLAR ENERGY

Current performance [kW]



1233

Total energy [MWh]



23343

CO₂ reduction [t]

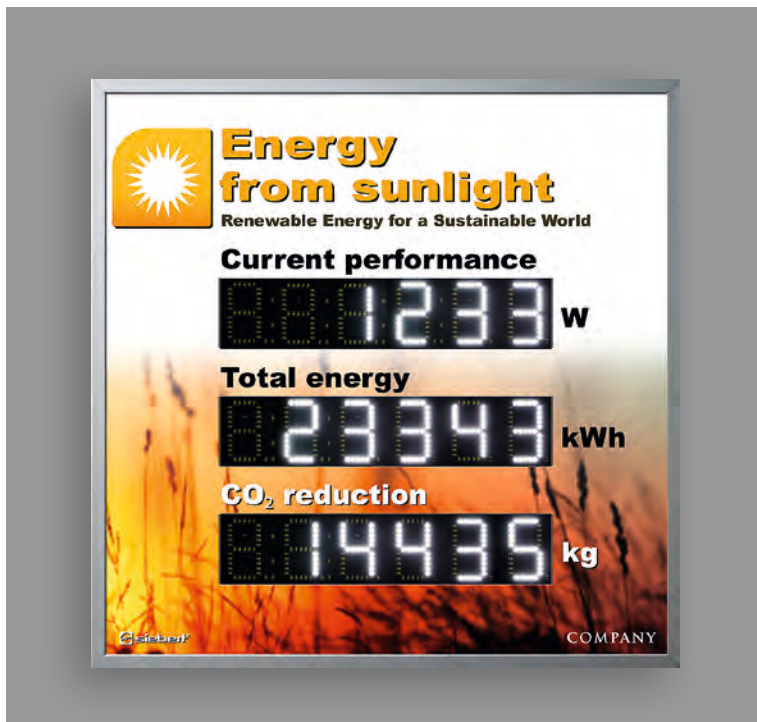


14435

siebert



Series XC480



Super bright LED display

The 100 mm high digits are especially suitable for long reading distances up to 40 meters. The super bright digits are very well readable in the sunlight.

Thus the devices also arouse the interest of the passers-by at longer reading distances.

Automatic brightness control

An automatic brightness control optimally adjusts the brightness to the ambient light.

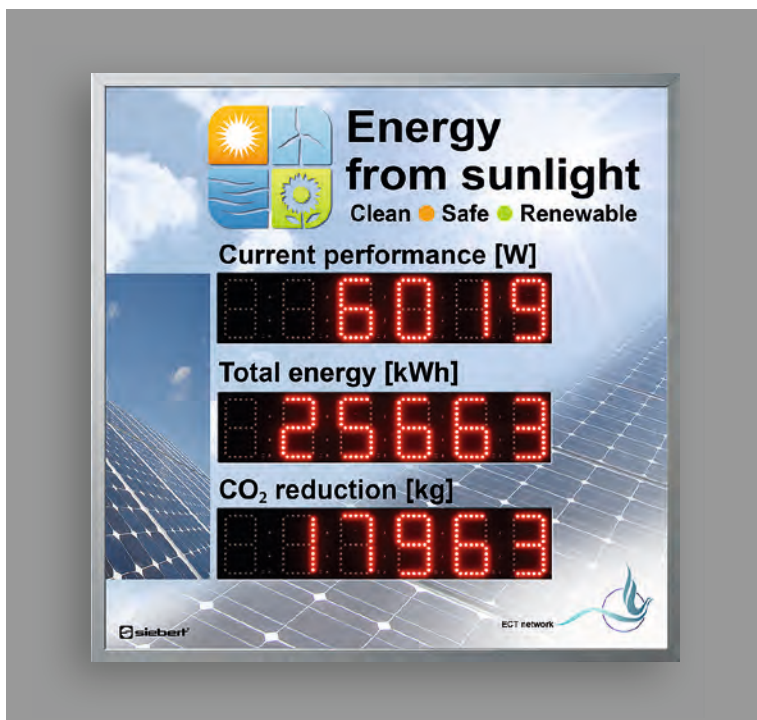
Housings for outdoor use

Devices which are used outdoors have screwed housing frames and offer protection against vandalism.

Different graphic designs

The illustrated graphic designs, shown on the right, of the XC480series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics. Individually designed graphics are also possible. For this, our own design studio is your competent partner.



Technical data

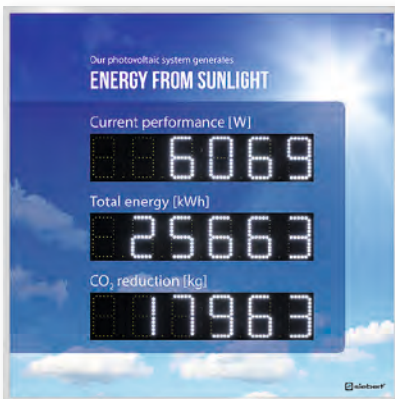
Type code	XC480-SAW-N-01
LED display character height	100 mm
LED color	white
LED display	3 x 6 digits
Measures W x H x D	1100 x 800 x 70 mm
Material	aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40 (IP54)
Weight	approx. 18 kg

Values in () are valid for devices with the option 'equipment package for outdoor use'

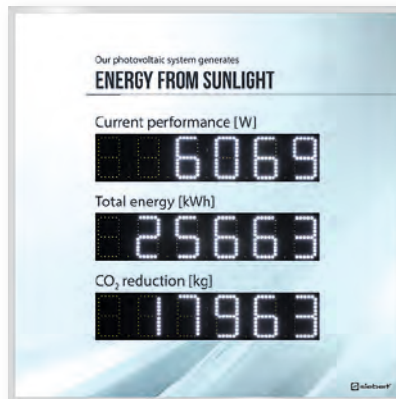
Options

Ethernet interface	XC480-xxx-x-05
WLAN	XC480-xxx-x-07
LED color red	XC480-xxR-x-xx
Equipment package for outdoor use	XC480-xxx-A-xx
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓

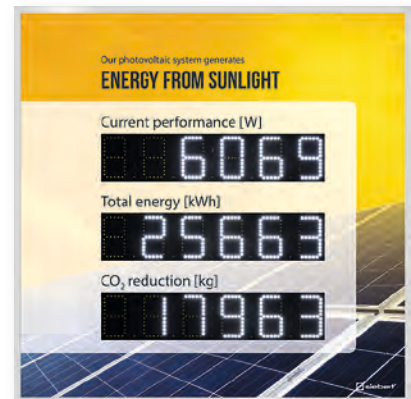
Standard designs



ST1



ST2



ST3

You can choose between five labeling variants — page 34.

Series

XC490

Digital displays
with additional text display

Besides the visualization of yield data the XC490 series offers to illustrate individual information and texts. Whether marquee, blinking, two-lined with a character height of 50 mm or single-lined with a character height of 100 resp. 120 mm any desired text can be illustrated in different formatting.



Wind Water Sun - Today's resource for a brighter tomorrow!

Energy from sunlight

Current performance | KW

5.233



Total energy | MWh

23343



CO₂ reduction | t

14435



6592 households/year
use our green energy

siebert®



Series XC490

Integrated text display

The additional text display allows the presentation of individual information and draws the attention to the display.

Robust housings

The digital displays of the XC490 series are especially suitable for sites in public areas or in harsh environments. The robust steel sheet housings offer a wide protection against external influences on the display.



Different graphic designs

The illustrated graphic designs, shown on the right, of the XC490 series are offered as standard designs.

It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics.

Individually designed graphics are also possible. For this, our own design studio is your competent partner .

Technical data

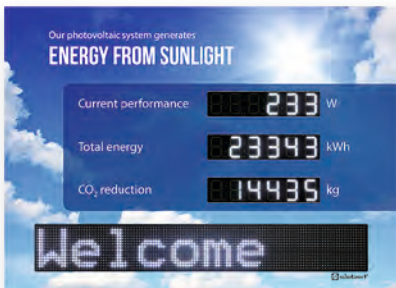
Type code	XC490-SCR-N-01
LED display	3 x 6 digits
Character height - LED digits	55 mm
LED – text display	2 x 20 digits - applies to character set Acala 7
LED text display - character height	50/100/120 mm switchable
LED color	white
Measures W x H x D	1100 x 800 x 70 mm
Material	steel sheet, varnished, front film coated
Power supply	100...240 V AC, 50...60 Hz
Protection type	IP40 (IP54)
Weight	approx. 36 kg

Values in () are valid for devices with the option 'equipment package for outdoor use'

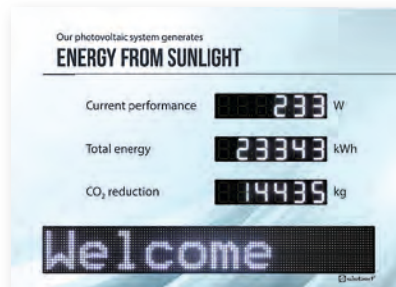
Options

Ethernet interface	XC490-xxx-x-05
WLAN	XC490-xxx-x-07
LED color red	XC490-xxR-x-xx
Equipment package for outdoor use	XC490-xxx-A-xx
1 customer logo on standard design	✓
2 or 3 customer logos on standard design	✓
Individual graphic design	✓

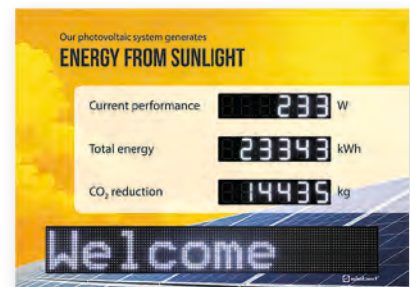
Standard designs



ST1



ST2



ST3

You can choose between five labeling variants — page 34.

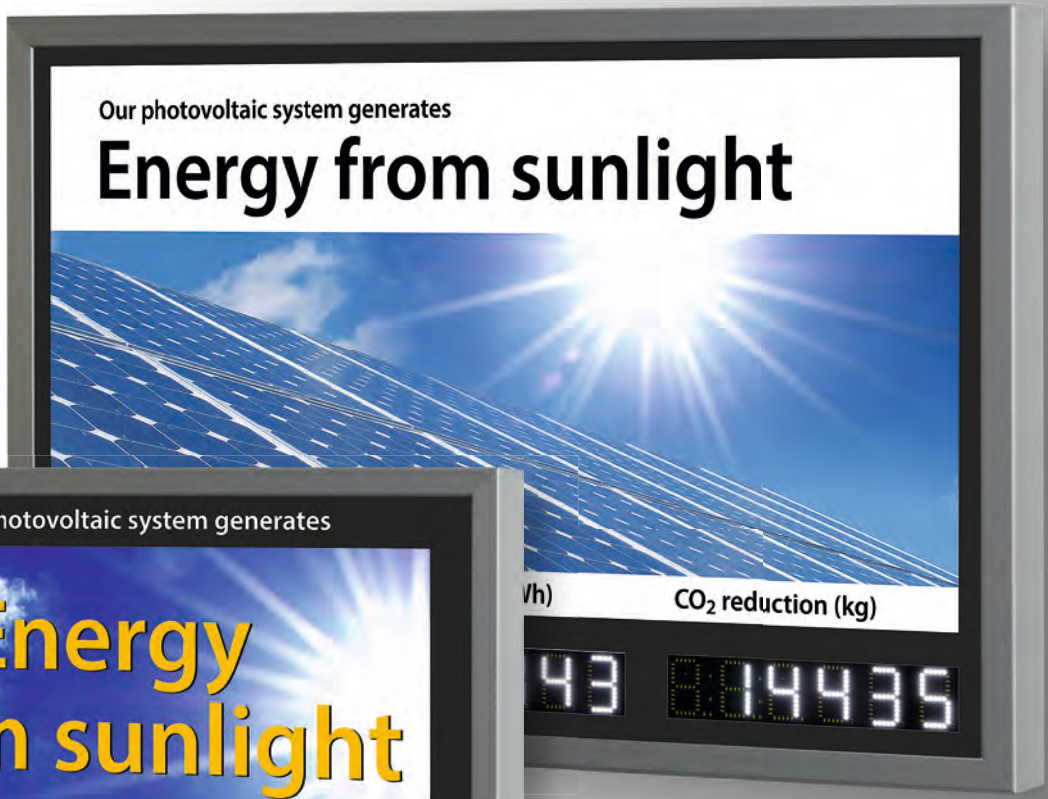
Series

XC445

XC455

Display systems
with backlit graphics

The devices with backlit graphics awake special attention. A homogeneous backlighting sets your graphics perfectly in scene, even in poor lighting conditions.



Series XC445|XC455

Backlit graphics

With exclusive design, bright shining LED digits in modern SMD technology and effectively backlit graphic design the devices of the XC445/XC455 series awake the interest of the audience. A homogeneous backlighting sets your graphics perfectly in scene, even in poor lighting conditions.

Reading distances

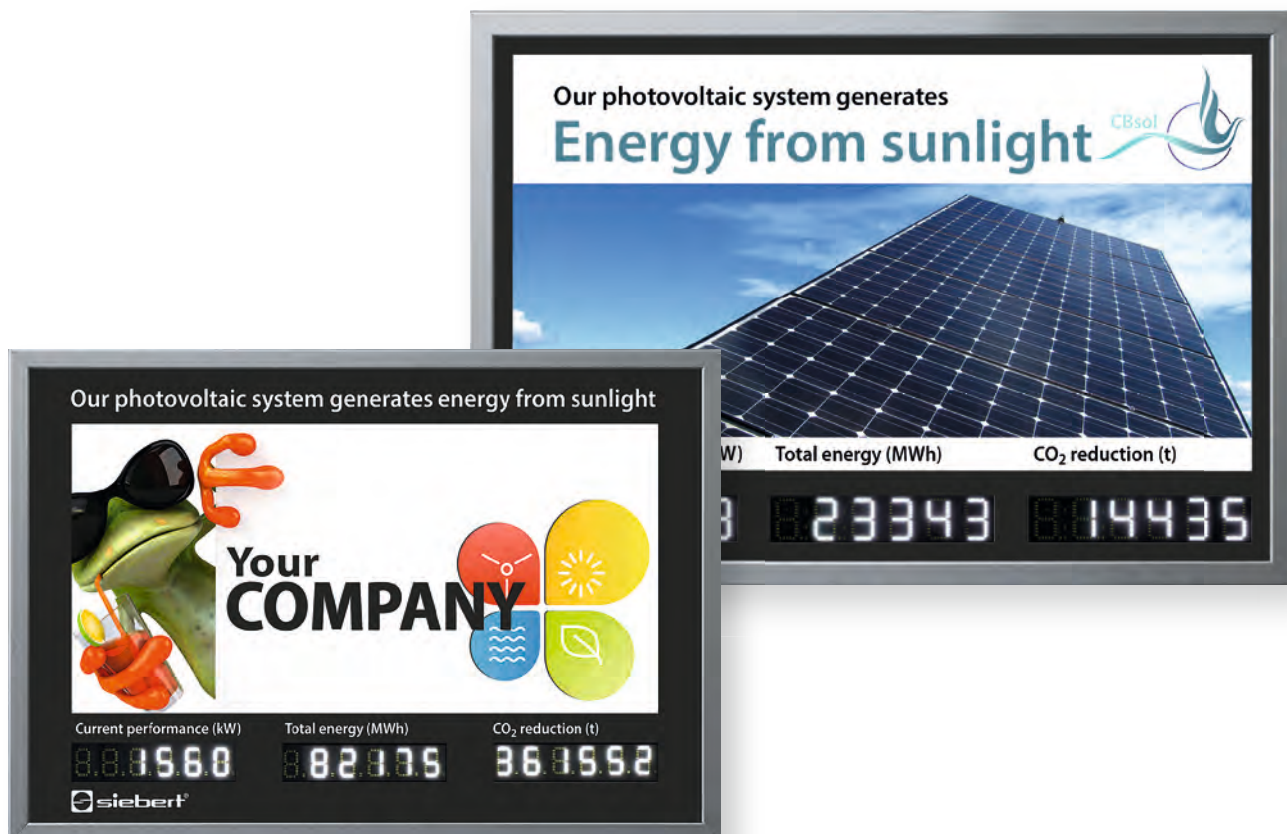
The XC445 series has 25 mm high LED digits and allows reading distances up to 10 m. The XC455 series has 55 mm high digits; they are still readable from a distance of 20 m, but achieve even with a smaller viewing distance and in the outdoor application, a higher grade of attention.

Individuality as standard

Our own design studio designs the graphics individually in direct consultation with the customer. The large surface provides plenty of scope for design. It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics

Labeling variants

You can choose between five labeling variants — page 34.





Technical data

Series	XC445	XC455
Type code	XC445-SAW-N-01	XC455-SAW-N-01
LED display character height	25 mm	55 mm
LED colour	white	white
Measures W x H x D	650 x 450 x 88 mm	1150 x 800 x 88 mm
Material	aluminium, front acrylic glass	aluminium, front acrylic glass
Protection type	IP40 (IP54)	IP40 (IP54)
Weight	approx. 10 kg	approx. 27 kg
Individual foil design	✓	✓

Values in () are valid for devices with the option 'equipment package for outdoor use'

Options

Ethernet interface	XC445-xxx-x-05	XC455-xxx-x-05
WLAN	XC445-xxx-x-07	XC455-xxx-x-07
LED colour red	XC445-xxR-x-xx	XC455-xxR-x-xx
Equipment package for outdoor use	XC445-xxx-A-xx	XC455-xxx-A-xx



Labeling of the photovoltaic display

The devices are available with various labeling variants — depending on the plant performance and the information to be shown.

XC4XX - □□□□ - □ - □□□ - □□□□□□□□

Graphic design (see respective series)			X	X	X				
Lettering German						D	E		
Lettering English						E	N		
Lettering Spanish						E	S		
Lettering French						F	R		
Lettering Italien						I	T		
Lettering Dutch						N	L		
Current performance in W Total energy in kWh CO ₂ reduction in kg									1
Current performance in kW Total energy in MWh CO ₂ reduction in in t									2
Current performance in W Daily energy in kWh Total energy in kWh									3
Current performance in kW Daily energy in kWh Total energy in MWh									4
Current performance in kW Total energy in kWh CO ₂ reduction in kg									5

XC-Boards®

Individual solutions
for demanding applications

XC-Boards® are customized display systems - from compact systems up to large-sized displays with reading distances up to 300 m.

Our photovoltaic system generates

ENERGY from sunlight

Current performance / kW

0.00

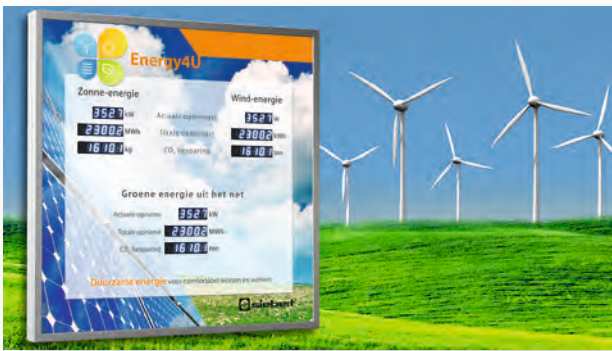
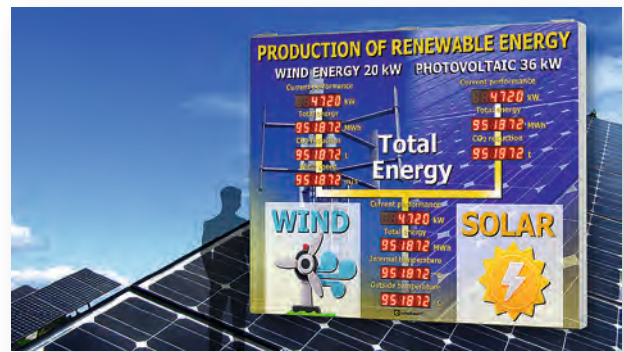
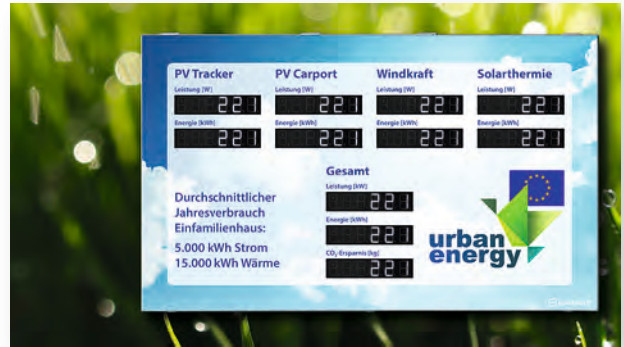
Total energy / MWh

0.00

CO₂ reduction / t

0.00

 siebert®



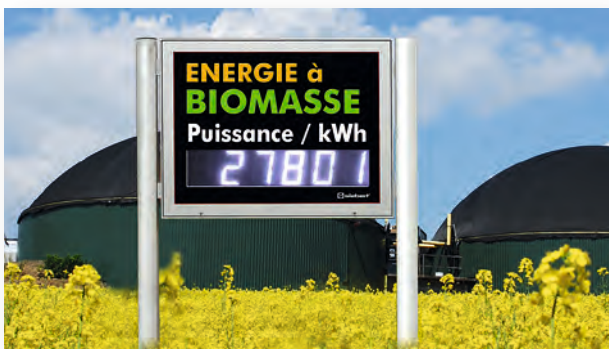
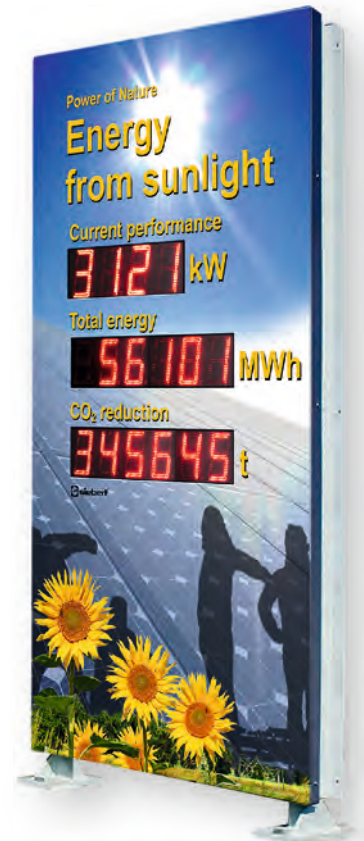
Displaying information

- for the photovoltaic
- for wind energy
- for thermal energy
- for energy generation from biogas plants
- for building technology

XC-Boards® are based on proven components of the serial devices. They are designed in close consultation with the customer and tailored to individual needs. Our extensive experience in the development and the realization of digital displays results in professional solutions which have been proving themselves in worldwide use even under rough and difficult conditions.

Design

Customized	readable one- or double-sided
LED character height	25, 55, 100, 160, 250, 350 and 700 mm
Character display	numeric or alphanumeric
Housings	aluminum, steel sheet varnished or stainless steel
Protection type	IP65, IP54, IP40 depending on housing type
Mounting	wall mounting, pendant mounting and free-standing
Interface	serial, Ethernet, WLAN, Bluetooth, ...
Power supply	230 V AC, 115 V AC



Siebert Group

Founded in 1972 as an engineering office today Siebert Group is a leading and global provider for digital information systems. The products are sold worldwide to demanding and market leading customers.



Research and development

All products are the result of our own research and development. Our engineers continuously create new innovations and with most modern facilities the products are manufactured in the factory in Eppelborn-Wiesbach.

Innovation

Market research and constant investments in research and development consequently leads to new products. With innovative solutions many products have set standards in specific market segments. Our customers can choose from a broad range of products which, in its consistency, is trend-setting.

International presence

Customer orientation also means presence in international markets. With own companies and agencies Siebert Group is represented in many countries worldwide.



www.siebert-solar.com

GERMANY

Siebert Industrieelektronik GmbH
Siebertstrasse
D-66571 Eppelborn
Phone +49 6806 980-0
Fax +49 6806 980-999
info.de@siebert-solar.com

FRANCE

Siebert France Sarl
4 rue de l'Abbé Louis Verdet
F-57200 Sarreguemines
Phone +33 3 87 98 63 68
Fax +33 3 87 98 63 94
info.fr@siebert-solar.com

ITALY

Siebert Italia Srl
Via Galileo Galilei 2/A
I-39100 Bolzano (BZ)
Phone +39 0471 053 753
Fax +39 0471 053 754
info.it@siebert-solar.com

THE NETHERLANDS

Siebert Nederland B.V.
Jadedreef 26
NL-7828 BH Emmen
Phone +31 591 633 444
Fax +31 591 633 125
info.nl@siebert-solar.com

AUSTRIA

Siebert Österreich GmbH
Mooslackengasse 17
A-1190 Wien
Phone +43 1 890 63 86-0
Fax +43 1 890 63 86-99
info.at@siebert-solar.com

SWEDEN

Siebert Scandinavia AB
Box 27104
S-102 52 Stockholm
Valhallavägen 185
S-115 53 Stockholm
info.se@siebert-solar.com

SWITZERLAND

Siebert AG
Bützbergstrasse 2
CH-4912 Aarwangen
Phone +41 62 922 18 70
Fax +41 62 922 33 37
info.ch@siebert-solar.com

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ARGENTINA

Heinrich Sensores
e Instrumentos para Procesos
Burela 2570 Local 1, 1431 Buenos Aires
Phone +54 11 4573 3339
Fax +54 11 4573 3339
sensores@heinrich.com.ar

AUSTRALIA

Micromax PTY Ltd.
5 Orangrove Ave, Unanderra N S W 2526
Phone +61 2 4223 7600
Fax +61 2 4271 8091
wollongong@micromax.com.au

CHINA

Shen Zhen Star View Industrial Co. Ltd.
RM 609, Aihua Bld
2038 Shennan Middle Rd.
Shenzhen, P.R.C. 518028
Phone +86-755-83698619
Fax +86-755-83698609
siebert@shidawei.com

CZECH REPUBLIC

AutoCont Control Systems, s.r.o.
Kafkova 1853/3
702 00 Moravská Ostrava
Phone +420 595 691 182
Fax +420 595 691 199
info@accs.cz

COLOMBIA

Sumecon Suministros Electricos
y de Control S.A.
Diagonal 74C Nro 32D-31
Medellin
Phone +57 4 444 46 30
Fax +57 4 444 46 30 102
informacion@sumecon.com

DENMARK

JJ Mechatronic A/S
Industriparken 17, 4450 Jyderup
Phone +45 59 25 81 00
Fax +45 59 25 81 01
info@jjas.dk

ESTONIA

Perel Eesti AS
Mustamäetee 62, 12916 Tallinn
Phone +372 699 8840
Fax +372 699 8841
info@perel.ee

FINLAND

Perel Oy
Torpankatu 28, PL 230, 05801 Hyvinkää
Phone +358 19 87 11 1
Fax +358 19 87 11 500
asiakaspalvelu@perel.fi

GREAT BRITAIN

Sibert Instruments Ltd
Fleet Business Park
Sandy Lane, Church Crookham
Hampshire GU52 8BF
Phone +44 1252 815518
Fax +44 1252 816618
info.uk@siebert-solar.com

HONGKONG

Hongkong Star View Co. Ltd.
Rm304C, Join-in Hang Sang Centre
2-16 Kwai Fung Crescent, Kwai Chung
Kowloon, Hong Kong
Phone +852 58049321
Fax +852 30206359
siebert@starview.hk

HUNGARY

Solarcell Hungary Kft.
Gubacsi út 30
1097 Budapest
Tel. +36 70 394-94-70
info@solarcellhungary.com

ISLAND

Smith & Norland
Nóatúni 4
105 Reykjavík
Phone +354 520 3000
Fax +354 520 3011
sminor@sminor.is

ISRAEL

C-Vision Computer Systems Ltd.
9 Bareket Street
PO Box 3145
Caesarea Industrial Park 3088900
Phone +972 72 272 3000
Fax +972 72 272 3001
info@c-vision.co.il

KOREA

PaCOSYS Co. Ltd.
Byucksan Digital vally No. 716
Gasam-Dong 481-10, GumcheonGu
Seoul Korea. Z.153-803
Phone +82 2 838 4038
Fax +82 2 838 4110
pacosys@pacosystem.com

MALAYSIA

Mectech Engineering & Control SDN. BHD.
40 & 42, Jalan SS15/4
47500 Subang Jaya, Selangor
Phone +60 3 5638 5511
Fax +60 3 5633 4992
mectech@po.jaring.my

NORWAY

Beijer Electronics AS
Teglverksveien 1, 3400 Lier
Postboks 487, 3002 Drammen
Phone +47 32 24 30 00
Fax +47 32 84 85 77
info@beijer.no

POLAND

SEMAC Sp. z o.o.
ul. Bajonska 6C, 03-963 Warszawa
Phone +48 22 617 16 61
Fax +48 22 617 15 97
info.pl@siebert-solar.com

RUSSIA

Perel Russia ZAO
Babyshkina 3
192029 St. Petersburg
Phone +7 812 325 8828
Fax +7 812 325 8830
assistance@perel-russia.ru

SINGAPORE

Overseas Technology Center Pte. Ltd.
Blk 1003 Bukit Merah Central
#06-16 Technopreneur Centre
Republic of Singapore 159836
Phone +65 6272 60 77, +65 6272 61 78
Fax +65 6278 21 34
otcpl@singnet.com.sg

SPAIN

Fegemu Automatismos S.L.
Parque Empresarial Zuatzu, Edificio Igeldo
20018 San Sebastián (Guipúzcoa)
Tel. +34 943 31 67 99
Fax +34 943 31 68 18
info@fegaut.com

SOUTH AFRICA

ECS (PTY) Ltd.
12 Victoria Link, 1st Floor, Unit 7
Route 21 Corporate Park
P.O. Box 2167, Halfway House 1685
Phone +27 12 345 6132
Fax +27 12 345 6134
info@ecssa.co.za

TURKEY

TRIM Automation & Engineering Ltd.
Organize San Bölgesi 75. Yil
Bulvari Demirciler Sitesi B Blok No: 3
16140 Nilüfer/BURSA
Phone +90 224 441 56 76
Fax +90 224 441 90 91
trim@trimotomasyon.com

www.siebert-solar.com

