SOLARA®
module. komponenten. systeme



SOLAR POWER – ANYTIME, ANYWHERE.















segeln TOP AUSRÜSTUNG 2025/26 AUSGEZEICHNET

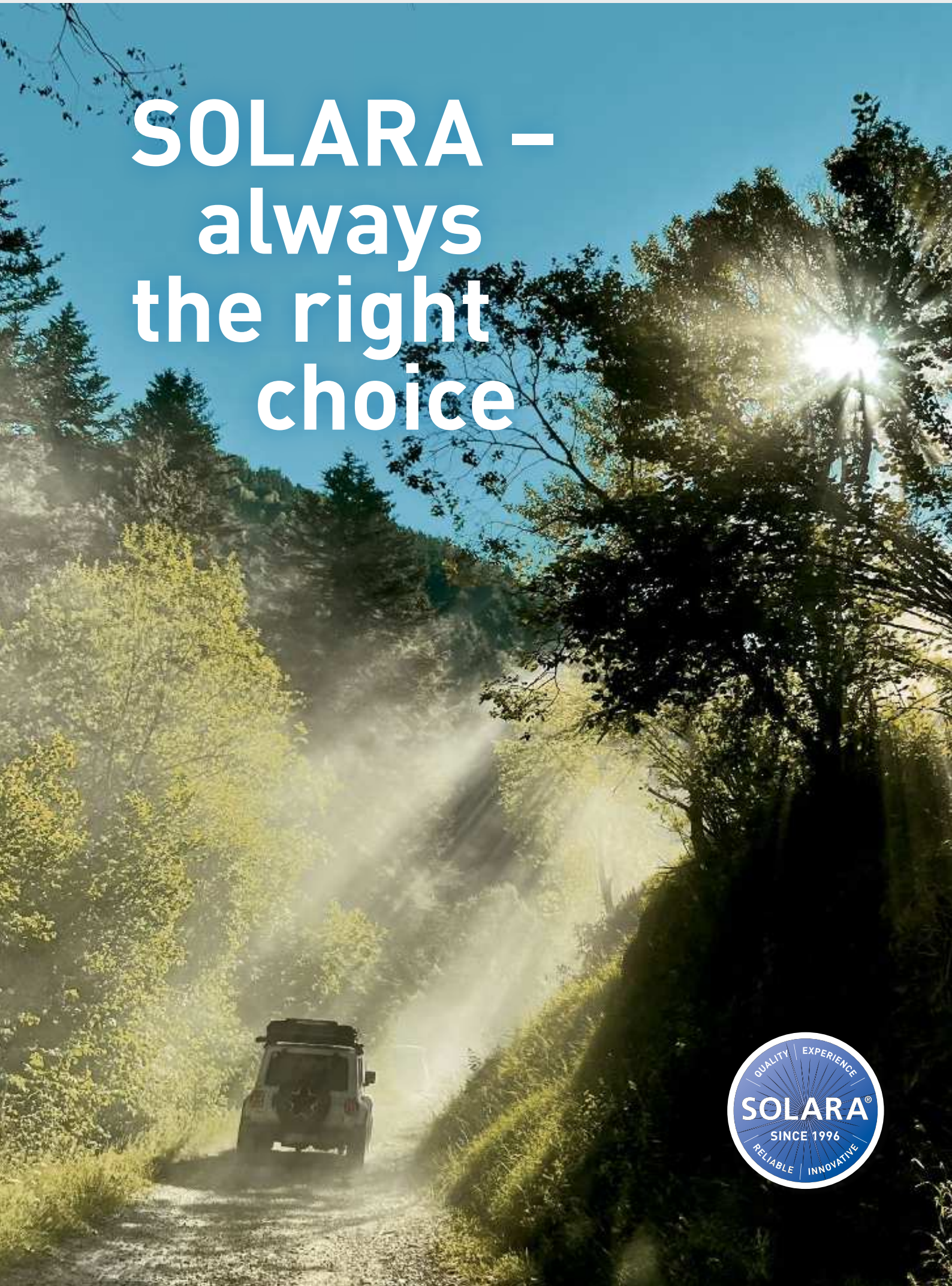
KÖNIG KUNDE AWARD 2021
2. PLATZ IN DER ZUBEHÖR-KATEGORIE SOLARANLAGE
REISE MOBIL INTERNATIONAL Europas kompetente Fachzeitschrift

KÖNIG KUNDE AWARD 2019
1. PLATZ IN DER ZUBEHÖR-KATEGORIE SOLARANLAGE
REISE MOBIL INTERNATIONAL Europas kompetente Fachzeitschrift

KÖNIG KUNDE AWARD 2022
3. PLATZ IN DER ZUBEHÖR-KATEGORIE SOLARANLAGE
REISE MOBIL Europas kompetente Fachzeitschrift

WWW.SOLARA.EU

SOLARA – always the right choice



SOLARA®

THE GREAT FREEDOM
The most beautiful spots on earth have no socket. With SOLARA you can still enjoy your vacation wherever you like it. Solar power gives you the freedom you dreamed of once you bought your camper or yacht.

FOR TECHNICAL EQUIPMENT WITHOUT POWER SUPPLY
Whether radio mast, navigation marks or a hospital at the end of the world. Electricity is needed everywhere. Professional solar systems from SOLARA can provide reliable energy.

PROVEN QUALITY SINCE 1996
Anyone who has successfully produced solar technology for so long has probably done everything right. Our customers are satisfied because we supply long-lasting and reliable solar systems. Only the latest technologies and materials being used to make our products more productive.

PREMIUM QUALITY - MADE IN GERMANY
All SOLARA solar panels are produced in Germany. Only then short and CO_2 reduced deliveries are possible. Product innovations can be implemented easily and quickly. German engineering guarantees consistently high quality.

WE LOVE PHOTOVOLTAICS
SOLARA are Engineers with long experience and great passion for solar technology. Hamburg business people, whom have the pleasure to deliver solar systems reliably and safely anywhere in the world.

DCsolar
designed by SOLARA®

SOLAR TECHNOLOGY IN TESTED QUALITY
More and more customers are demanding a priced alternative in classic quality. SOLARA has the DCsolar solar modules produced in Asia well and cheaply.

"EVEN IN THE ECONOMY CLASS YOU CAN HAVE A GOOD AND SAFE FLIGHT"
DCsolar solar modules are developed by SOLARA in Germany. Tested and certified manufacturing facilities in Asia produce DCsolar modules according to these specifications.

ATTRACTIVE ALL-IN-ONE KITS
DCsolar modules can be combined with all high-quality SOLARA mounting systems and charge controllers. The DCsolar all-in-one kits in SOLARA quality are very price attractive.

You have the choice: Premium quality Made in Germany
or the classic stuff from Asia

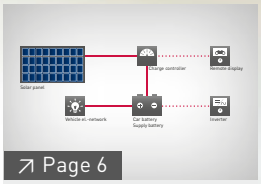
PROVED SOLARA® QUALITY

PROVED SOLARA® SAFETY

PROVED DCsolar QUALITY

CONTENT

Solar systems tips



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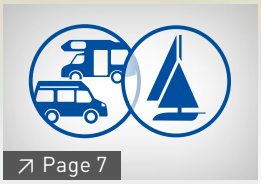
Tips for system design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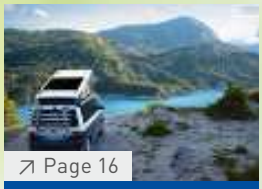
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Fusion


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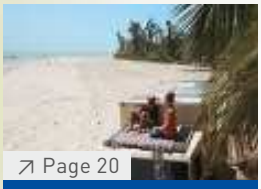
Power S-Series HV deluxe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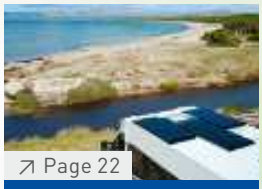
S-Series Vision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S-Series

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SOLARA All-in-one kit Premium Pack HV


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SOLARA All-in-one kit Premium Pack EBL


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SOLARA All-in-one kit Premium Pack MPPT


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SOLARA All-in-one kit Profi Pack

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Roof grommets



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Accessories

DCsolar solar panels



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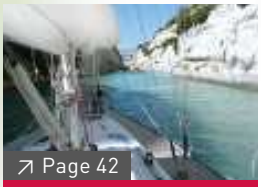
Strong power on the go



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Power Flex



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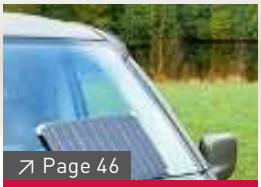
Power Move



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OBD-2 battery charger



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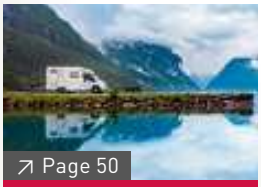
EcoLux HV-Series



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EcoLux-Series

DCsolar sets



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DCsolar All-in-one kit Power MPPT HV



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DCsolar All-in-one kit Power MPPT EBL HV



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DCsolar All-in-one kit Power Profi

Commercial applications



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Solutions for every application



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SOLARA wall and pole mounts



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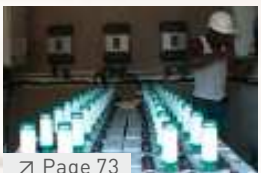
Charge controller & inverters



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Batteries

Independent power supply

SOLAR PANELS FOR EVERY NEED

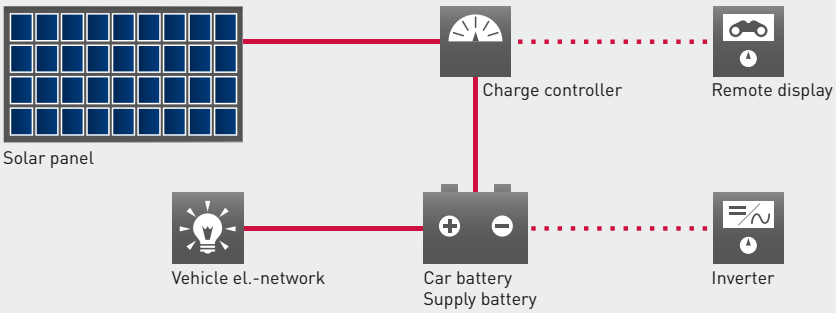
Reliability is also a decisive criterion in the small performance range. Whether camper or boat, mountain hut or measuring station, often even a small solar system is enough to ensure a power supply, even without complicated inverters.

On the following pages you will find a variety of complete solutions for almost every requirement. The advantage of solar systems by SOLARA are their quick setup, because all parts of the system are optimally adapted and plug & play.

MAXIMUM FLEXIBILITY

In addition, all components form a solid basis for extensions. The modular design ensures maximum flexibility, additional components can be integrated at any time, retroactively and step-by-step, in line with any growing energy demand.

You need individual counselling? Just contact us!



CALCULATE YOUR ENERGY REQUIREMENTS

To find out how big your solar system should be, you need to take a closer look at your consumers and their energy requirements. Depending on the number of devices, the power consumption of each device and the daily run-time. Furthermore, the number of people and the period of use during the year affect energy demand.

Now just simply sum up your consumption according to the table below - the result is your daily energy need. Depending on your consumption behaviour and the time of use over the year, then this consumption will be, more or less, covered by the solar system.

Device 12 Volt	Power	Calculation	Operation Time	Consumption Ah	Consumption Wh/Tag
TV/Sat-Receiver	60 W	60 W ÷ 12 V = 5.0 A	x 1.5 h	7.5	90
Lamps	16 W	16 W ÷ 12 V = 1.3 A	x 2.0 h	2.6	32
Water pump	25 W	25 W ÷ 12 V = 2.1 A	x 0.25 h	0.5	6
Power supplies	90 W	90 W ÷ 12 V = 7.5 A	x 5.0 h	37.5	48
Hairdryer	1,500 W	1,500 W ÷ 12 V = 125 A	x 0.1 h	12.5	150
Radio	15 W	15 W ÷ 12 V = 1.25 A	x 2.0 h	2.5	30
Compressor coolbox/fridge[1]	40 W	40 W ÷ 12 V = 3.33 A	x 10 h[2]	33.3	400
Diesel heating 4 kW (incl. fan)[1]	30 W	30 W ÷ 12 V = 2.5 A	x 24 h	60.0	720

[1] average compressor running time/heating capacity, [2] incl. approx. 10 % inverter loss

230 V device/inverter	Power	Calculation	Operation Time	Consumption Ah	Consumption Wh/Tag
4x Espresso	1,200 W	1,200 W ÷ 12 V = 100 A	x 0.04 h	4.5[2]	120
Induction hob	1,700 W	1,700 W ÷ 12 V = 142 A	x 0.5 h	78.0[2]	850
Air conditioning Freshjet 2000	940 W[3]	940 W ÷ 12 V = 78 A	x 1.0 h	86.0[2]	940

[2] incl. approx. 10 % inverter loss, [3] electrical power consumption at 2.000 W cooling mode

How to find the right system size

MODULE IS NOT EQUAL A MODULE

In order to find out which panel size is the right one, it is advisable to take a closer look at the general conditions such as travel time, travel behaviour and vehicle size.

- To extend the service life, it is not always necessary to cover the entire consumption. Often, it is sufficient enough to compensate a part by the solar system.
- In the case of a main use during the summer season, a solar system delivers very good yields and can be chosen smaller.
- With only a few people on board, the energy consumption is usually lower and the solar power plant can be chosen smaller.



Solar system up to 110 W

- Ideal for camper vans and small RV's
- Mostly weekend tours during summer time
- Consumers: light, pump, radio, small compressor fridge

Product recommendation: Modules from the S-Series or M-Series

Solar system with 110 Wp (440 Wh/day)

- Ideal for small to medium size RV's
- Period of use: April to September
- Consumer: light, pump, radio, TV/SAT

Product recommendation: SOLARA or DCsolar complete sets, S-Series modules, Power Mobile, Power Mobile Plus

Solar system with 110 - 220 Wp (440-880 Wh/day)

- Ideal for medium to large RV's
- Period of use: all year round
- Consumers: light, pump, radio, TV/SAT, small compressor fridge

Product recommendation: SOLARA or DCsolar complete sets, S-Series modules

Solar system with more than 220 Wp (> 880 Wh/day)

- Ideal for medium to large RV's
- Period of use: all year round
- Consumers: light, pump, radio, TV/SAT, compressor fridge, E-Bike charger

Product recommendation: SOLARA or DCsolar complete sets, S-Series modules



Solar system smaller than 25 W

- All boat sizes and types
- Trickle charge for the battery system
- Period of use: all year round

Product recommendation: Solara M-Series

Solar system with 30 - 80 W

- Sailboat, charter boat
- High consumption coverage
- Compressor fridge, radio, navigation, light, communication, tablet/PC
- Summer time, long-distance voyage, short-haul cruises

Product recommendation: Solara M-Series, Power M-Series, Power Mobile

Solar system with 80-150 W

- Sailboat, charter boat
- High consumption coverage
- Compressor fridge, radio, navigation, light, communication, tablet/PC
- Summer time, long-distance voyage, short-haul cruises

Product recommendation: Solara M-Series, Power M-Series, Power Mobile

Solar systems with 150 W and more

- Large sailboat, catamaran, large charter boat
- Almost complete consumption compensation
- Compressor fridge, radio, navigation, light, communication, tablet/PC
- April-September period, long-distance voyage, cruises with little to no harbour time

Product recommendation: Solara M-Series, Power M-Series, S-Series





The sabbatical continues on land...

KAMILA & CHRISTIAN W., FORMER LONG-TERM SAILORS

„Solara reliably supplied us with energy on our sailing trip. Every centimetre counted in the motorhome.

Thanks to customised planning, lithium technology, short cable runs and the perfectly fitting S-series modules from Solara, we created a powerful, light-weight and reliable solar system.

Today, we travel self-sufficiently, carefree and close to nature – with energy from Solara.“

SOLARA S-Serie

System size	570W Solar, 3000W AC
Suitable for	Sailboats, panel vans and motorhomes
Products	3x Solara S-Serie 190W
Accessories	Victron Orion und Smart Shunts

↗ **More details on our Solara S-Series can be found on the pages 16-23**



Solara – Victron together, powerful on the move.



SOLARA Power M-Series

HIGHEST DAILY YIELDS BY SUNPOWER CELLS

- Solar cells with over 23 % efficiency
- Additional solar cells for efficient charging
- Highest yields in every season due to excellent low-light performance - even in diffused light
- Designed and manufactured for permanent use on water and on land
- All materials withstand extreme heat, high humidity, sea and salt water
- External cell protector with protection diodes included
- Extremely flat module construction with aluminium sandwich support plate
- Flat, glued and screwed cable outlet with strain relief
- Fully walkable on firm ground
- Cable lead-through already prepared in the carrier plate
- Manufactured exclusively in Germany



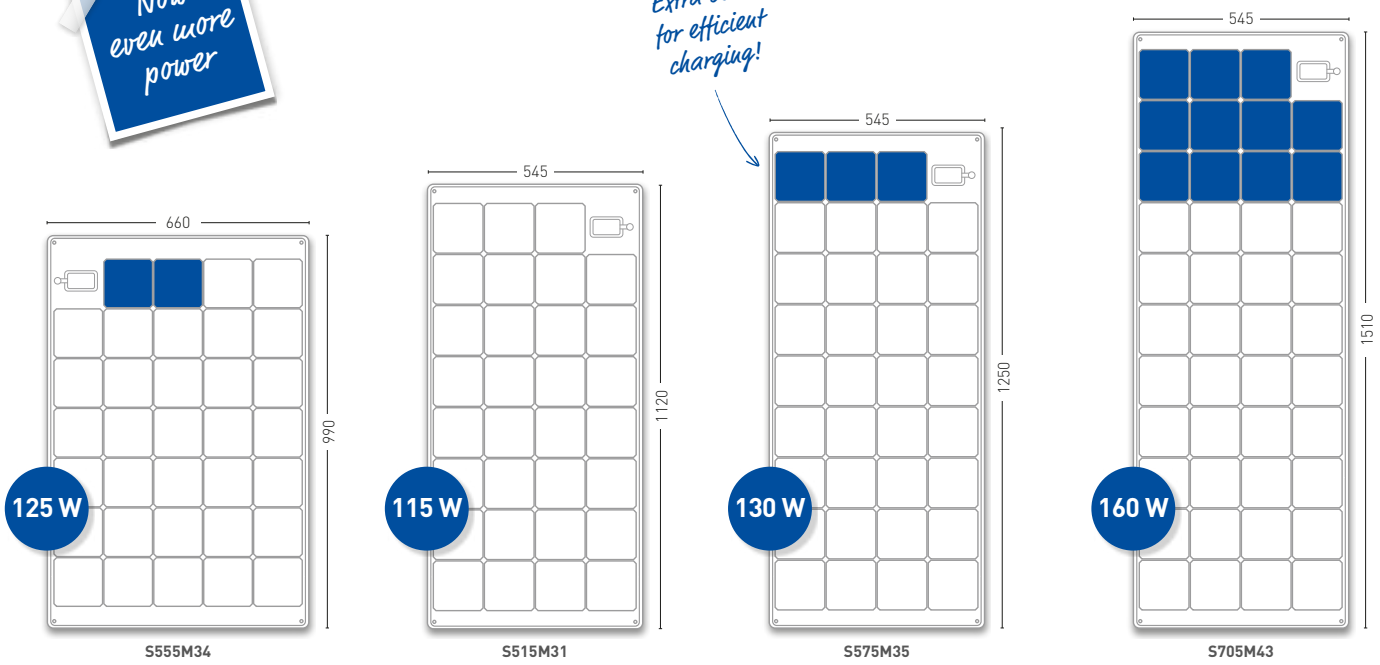




SOLARA Power M-Series

Now even more power

Extra cells for efficient charging!



PERFORMANCE

Type	S555M34	S515M31	S575M35	S705M43
Daily output in summer in Germany (Ø) Wh/d	555	515	575	705
Rated output[1] (Pmpp) Wp	125	115	130	160
Short-circuit current (Isc) A	6.40	6.40	6.40	6.40
Open-circuit voltage (Uoc) V	24.82	22.63	25.55	31.39
Voltage(Umpp) V	21.08	19.22	21.70	26.66
Current (Impp) A	6.04	6.04	6.04	6.04
No. of cells	34	31	35	43

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	990 x 660 x 4	1120 x 545 x 4	1250 x 545 x 4	1510 x 545 x 4
Weight kg	3.85	3.6	3.95	5.2
Cell dimensions mm	125 x 125	125 x 125	125 x 125	125 x 125

Thermal properties (per cell)

TK Pmpp %/°C	-0.29
TK Uoc mV/°C	-1.74
TK Isc mA/°C	2.90
NOCT °C	46 ± 2

Used materials

Cell technology	Sunpower, monocrystalline with back contact
Front/back	ETFE front and back side foil, welded at the edge
Cable outlet	Solid, flat, seawater tight, glued and screwed
Connecting cable	3 m, 2 x 2.5 mm²

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C

PROVED SOLARA® QUALITY

Quality Made in Germany

5 years product guarantee*



SOLARA M-Series

EXTREMELY FLAT, WALKABLE AND SEMI-FLEXIBLE

- Stability and maximum heat dissipation due to innovative aluminium-sandwich support plate
- Additional solar cells for efficient charging
- Maximum daily yield due to additional single cells
- All materials withstand extreme heat, high humidity, sea and salt water
- Teflon-type extremely resistant protective film on front and back
- Flat, glued and screwed cable outlet with strain relief
- Cell protector with external protection diodes included
- Cable lead-through already prepared in the carrier plate
- Manufactured exclusively in Germany



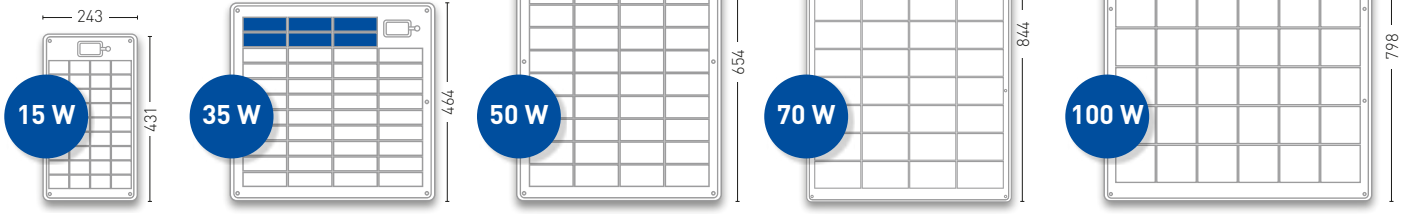




SOLARA M-Series

Now even more power

Extra cells for efficient charging!



PERFORMANCE

Type	S50M36	S140M42	S200M43	S280M43	S400M41
Daily output in summer in Germany (Ø) Wh/d	50	140	200	280	400
Rated output[1] (Pmpp) Wp	15	35	50	70	100
Short-circuit current (Isc) A	0.72	1.44	2.15	2.85	4.29
Open-circuit voltage (Uoc) V	24.48	28.56	29.24	29.24	27.88
Voltage(Umpp) V	20.88	24.36	24.94	24.94	23.87
Current (Impp) A	0.69	1.38	2.05	2.72	4.10
No. of cells	36	42	43	43	41

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	431 x 243 x 4	464 x 481 x 4	654 x 481 x 4	844 x 481 x 4	798 x 695 x 4
Weight kg	0.7	1.5	2.0	2.6	3.5
Cell dimensions mm	52 x 35	104 x 35	104 x 52	104 x 69	104 x 104

Thermal properties

TK Pmpp %/C	-0.40
TK Uoc %/C	-0.32
TK Isc %/C	0.06
NOCT °C	46 ± 2

Used materials

Cell technology	Monocrystalline PERC with up to 22 % efficiency
Front/back	ETFE front and back side foil, welded at the edge
Cable outlet	Solid, small, flat, seawater-tight, glued and screwed
Hotspot protector (external)	Enclosed with S200M43, S280M43 and S400M41
Connecting cable	3 m, 2 x 1.5mm² oder 3 x 1.5mm²

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C

PROVED SOLARA® QUALITY

Quality Made in Germany

5 years product guarantee*



SOLARA Power Mobile

PLUG & PLAY WITH CABLE CHARGE CONTROLLER

- Flexible use thanks to innovative, fully encircling fabric bordure
- Eyelets, Loxx buttons, velcro or zipper can be retrofitted
- Space-saving stowage due to foldable module surface
- Effective battery charging even when the vehicle is in the shade
- Extremely high output by the use of Sunpower cells with 23 % efficiency
- All materials withstand extreme heat, high humidity, sea and salt water
- Manufactured exclusively in Germany

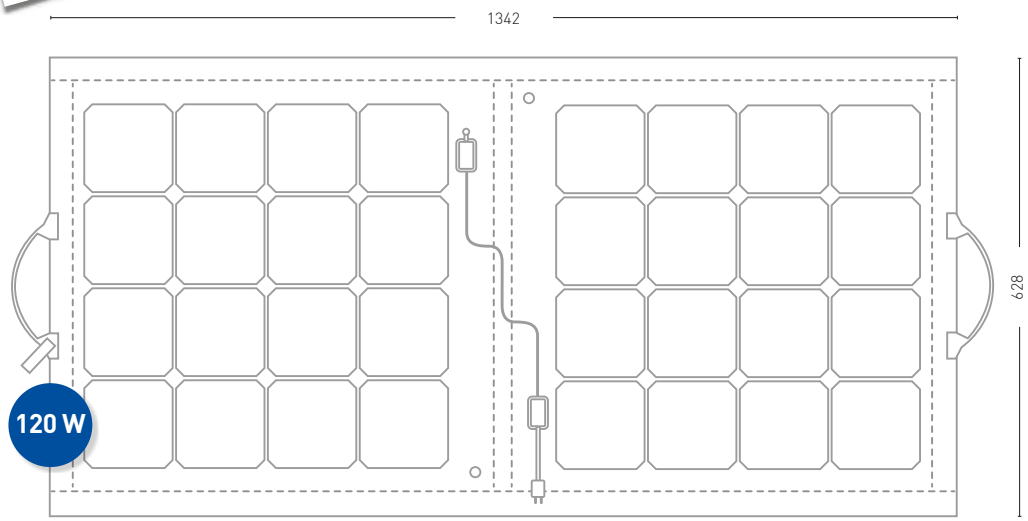






SOLARA Power Mobile

Now even more power



S525M32 Mobile

PERFORMANCE

Type	S525M32 Mobile
Daily output in summer in Germany (Ø) Wh/d	525
Rated output[1] (Pmpp) Wp	120
Short-circuit current (Isc) A	6.40
Open-circuit voltage (Uoc) V	23.36
Voltage(Umpp) V	19.85
Current (Impp) A	6.04
No. of cells	32

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions opened (L x W x H) mm	1342 x 628 x 6
Dimensions folded (L x W x H) mm	685 x 628 x 25
Weight kg	5.5
Cell dimensions mm	125 x 125

Thermal properties (per cell)

TK Pmpp %/°C	-0.29
TK Uoc mV/°C	-1.74
TK Isc mA/°C	2.90
NOCT °C	46 ± 2

Used materials

Cell technology	Sunpower, monocrystalline with back contact
Front/back	ETFE front and back side foil, welded at the edge
Cable outlet	Solid, small, flat, seawater-tight, glued and screwed

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C

Scope of delivery: Cable charge controller Fox-062 (for Gel, AGM and Li-batteries), Cable 5 m with SureSeal plugs pre-mounted

Options: Extension cable with SureSeal plugs 5 m, Eyelet set, Loxx buttons, magnet sets

PROVED SOLARA® QUALITY

Quality Made in Germany


Magnet set


Charge controller FOX-062

5 years product guarantee*



SOLARA Fusion 170 watts

SUITABLE FOR ALL VW T5 – T6.1 MODELS WITH ORIGINAL CALIFORNIA ROOF

- Perfectly adapted to the roof shape – minimal installation height and particularly lightweight
- 41 high-yield monocrystalline PERC cells with over 22 % efficiency
- High-quality ETFE film for lasting durability
- Invisible cable routing
- Includes airline rail – railing remains usable even with solar module installed
- Additional cells for higher charging efficiency
- High yield in every season, even in diffuse light conditions
- No gluing required – can be dismantled without damage

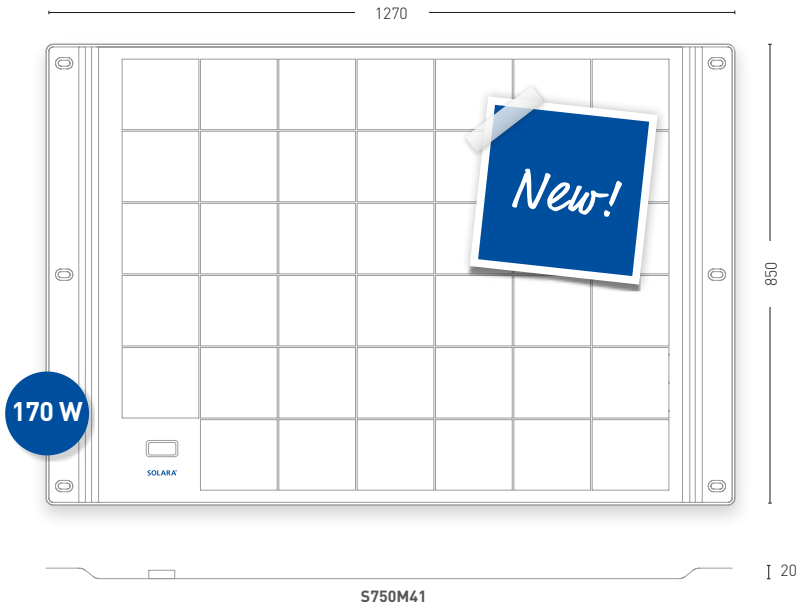






SOLARA Fusion 170 watts





PERFORMANCE

Type	S750M41
Daily output in summer in Germany (Ø) Wh/d	750
Rated output[1] (Pmpp) Wp	170
Short-circuit current (Isc) A	7.54
Open-circuit voltage (Uoc) V	27.9
Voltage(Umpp) V	23.8
Current (Impp) A	7.0
No. of cells	41

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1270 x 850 x 20
Weight kg	9
Cell dimensions mm	130 x 140

Thermal properties (per cell)

TK Pmpp %/°C	-0.40
TK Uoc mV/°C	-0.32
TK Isc mA/°C	0.06
NOCT °C	46 ± 2

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C

Used materials

Cell technology	monocrystalline PERC with > 22 % efficiency
Front/back	ETFE front and back side foil, welded at the edge
Base plate	2 mm stainless steel, folded for VW pop-up roof, including slotted hole punching
Cable outlet	robust, small, seawater-proof cable outlet, glued and screwed

Scope of delivery: 5 m spiral cable with connector plug, necessary mounting screws, protective foam rubber layer

Options: suitable charge controller, e.g. Victron smart MPPT 75/15

PROVED SOLARA® QUALITY

Quality Made in Germany

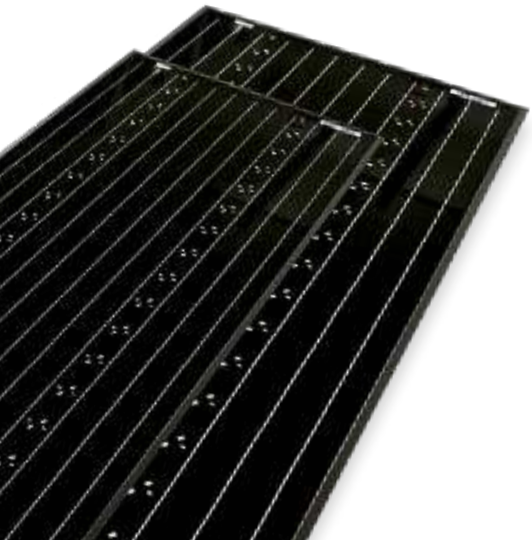
5 years product guarantee*



SOLARA Power S-Series HV deluxe

120 AND 190 WATTS, WITH 72 ANTI-SHADOW DIODES (ASD) FOR MAXIMUM DAILY YIELD

- 72 high-yield, highly light-sensitive Mono-Perc cells with > 22 % efficiency
- Fully operational at all times, partial shading of up to ¼ of all cells caused by luggage racks, branches, skylights, etc. is no longer a problem thanks to the unique ASD technology.
- Genuine high-voltage module, therefore suitable for charging 12 V and 24 V battery systems
- Innovative, toughened 2 mm TVG solar glass with anti-reflective coating for up to 5% higher yields, especially on cloudy days – and with minimal weight.
- For extreme applications, such as motorhomes, off-road use, sailing yachts, expedition vehicles, catamarans, etc.
- Large, waterproof junction box, with connection cables and MC4 connectors
- Manufactured exclusively in Germany





ASD technology

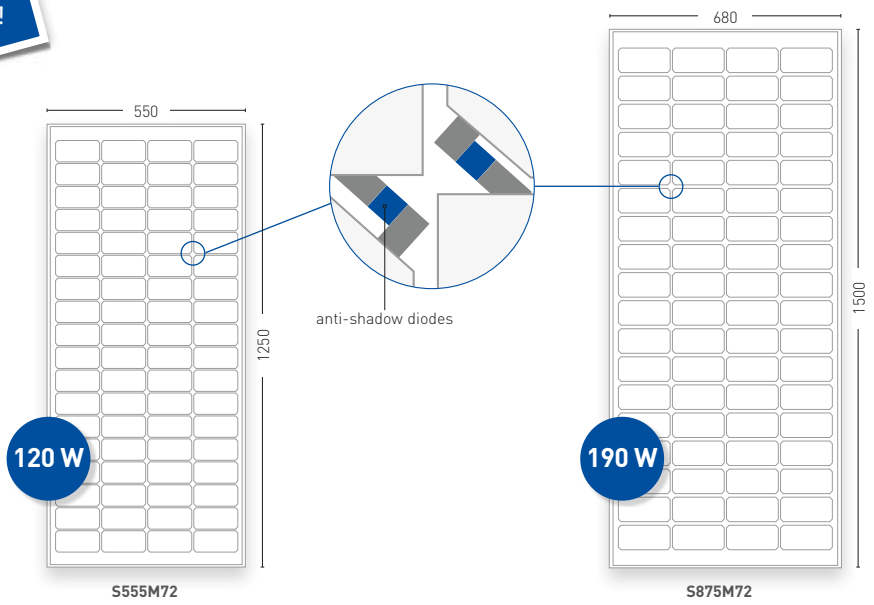
(ASD = anti-shadow diode)

Each of the 72 solar cells has its own intelligent diode, which actively redirects the current in the event of shading, thus ensuring that the maximum achievable charging current remains available.

Fully operational - at any time.

SOLARA Power S-Series HV deluxe

72 intelligente Anti-Schatten Dioden integriert!



PERFORMANCE

Type	S555M72	S875M72
Daily output in summer in Germany (Ø) Wh/d	400	875
Rated output[1] (Pmpp) Wp	120	190
Short-circuit current (Isc) A	3.1	4.9
Open-circuit voltage (Uoc) V	49.0	49.0
Voltage (Umpp) V	41.8	41.8
Current (Impp) A	2.84	4.51
No. of cells	72	72

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1250 x 550 x 35	1500 x 680 x 35
Weight kg	6.6	9.3
Cell dimensions mm	123 x 62	156 x 78

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	monocrystalline PERC with > 22 % efficiency
Frontside	Tempered solar glass with anti-reflective coating
Frame	Anodized aluminium hollow profile, black
Junctionbox	IP67 with original MC4 connector

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C
Glass thickness	3.2/2.0 mm

PROVED SOLARA® QUALITY

Quality Made in Germany

segeln TOP AUSRÜSTUNG 2025/26

5 years product guarantee*



SOLARA S-Series Vision

INDESTRUCTIBLE DUE TO UNIQUE GLASS/GLASS TECHNOLOGY

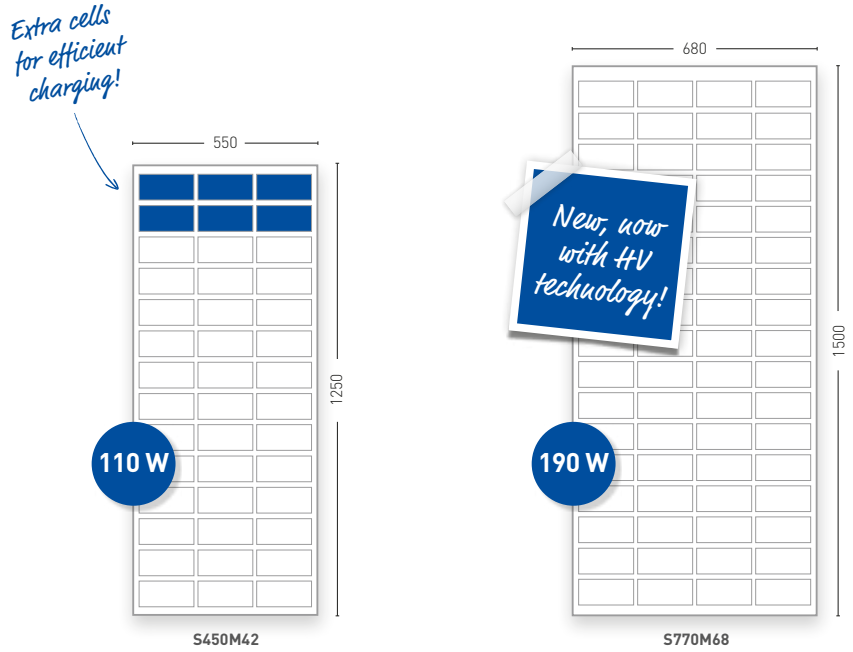
- Fully walkable
- Bifacial MonoPerc high-performance cells with > 22 % efficiency
- 190 watts with high-voltage technology and for charging 12 V and 24 V battery systems
- Robust, seawater-resistant aluminium profile frame
- Tropical roof capable and OFF-ROAD use suitable
- Large, waterproof junction box
- Suitable for use even under extreme climatic conditions
- Designed and manufactured for permanent use on water and on land
- Manufactured exclusively in Germany







SOLARA S-Series Vision



PERFORMANCE

Type	S450M42	S770M68
Daily output in summer in Germany (Ø) Wh/d	440	770
Rated output[1] (Pmpp) Wp	110	190
Short-circuit current (Isc) A	4.95	4.95
Open-circuit voltage (Uoc) V	27.62	44.72
Voltage (Umpp) V	23.50	38.05
Current (Impp) A	4.68	4.68
No. of cells	42	68

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1250 x 550 x 35	1500 x 680 x 35
Weight kg	9.4	13.5
Cell dimensions mm	156 x 78	156 x 78

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	Bifaciale monocrystalline PERC with > 22 % efficiency
Front/back	Tempered solar glass with anti-reflective coating
Frame	Anodized aluminium hollow profile, black
Junctionbox	IP67 with original MC4 connector

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C
Glass thickness	2 x 2 mm

PROVED SOLARA® QUALITY

Quality Made in Germany

10 years product guarantee*



SOLARA S-Series

100, 120, 190 AND 205 WATT, ROBUST AND RELIABLE, DESIGNED FOR MOBILE USE

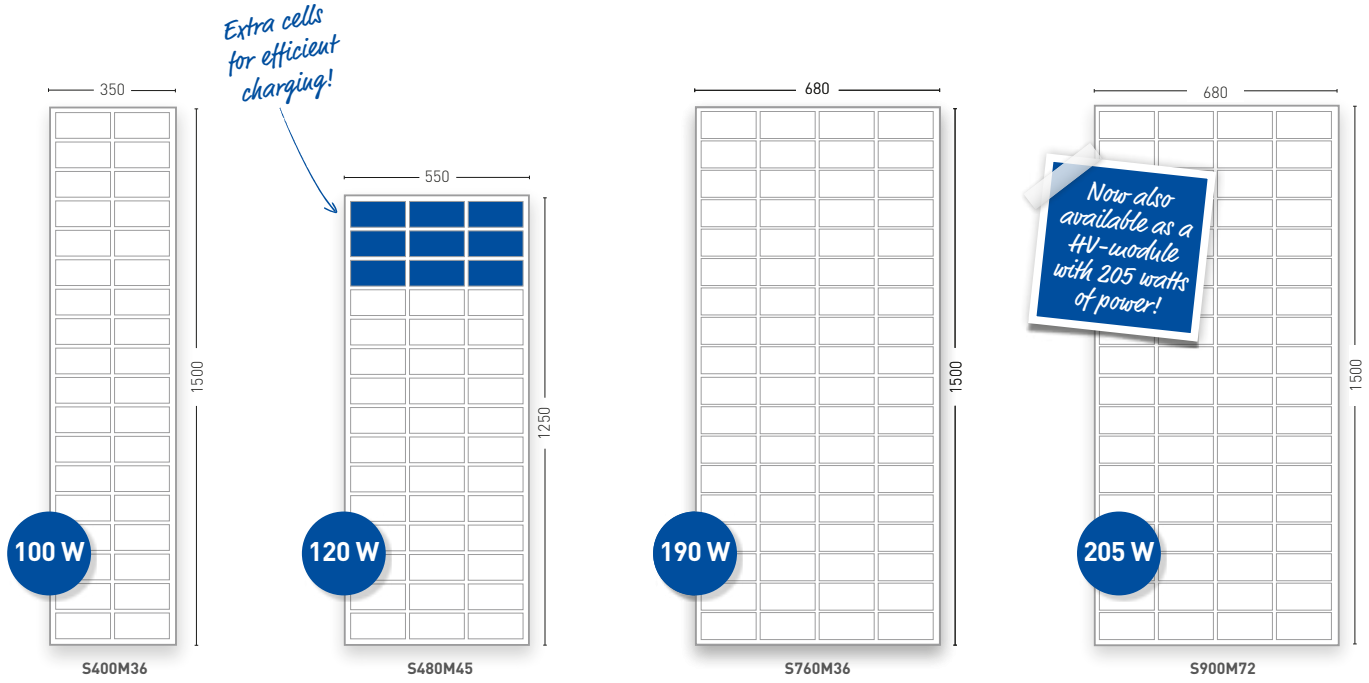
- Solar modules with 36/45/72 high-performance solar cells
- 205-watt module with 72 cells, suitable for charging 12 V and 24 V battery systems
- Additional solar cells for efficient charging (except for the S400M36)
- Designed and manufactured for permanent use on water and on land
- Robust, seawater-resistant, torsion-resistant aluminium profile frame
- Drainage holes to prevent frost damage
- Large, waterproof junction box with connection cable, MC4 compatible
- Manufactured exclusively in Germany







SOLARA S-Series



PERFORMANCE

Type	S400M36	S480M45	S760M36	S900M72
Daily output in summer in Germany (Ø) Wh/d	400	480	760	900
Rated output[1] (Pmpp) Wp	100	120	190	205
Short-circuit current (Isc) A	5.04	4.89	10.09	5.4
Open-circuit voltage (Uoc) V	24.16	29.94	24.14	49.0
Voltage (Umpp) V	20.70	25.65	20.13	41.8
Current (Impp) A	4.83	4.68	9.44	4.9
No. of cells	36	45	2 x 36	72

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1500 x 350 x 35	1250 x 550 x 35	1500 x 680 x 35	1500 x 680 x 35
Weight kg	7.9	6.6	9.3	9.3
Cell dimensions mm	156 x 78	156 x 78	156 x 78	156 x 78

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	Monocrystalline PERC with > 22 % efficiency
Frontside	Tempered solar glass with anti-reflective coating
Frame	Anodized aluminium hollow profile, black
Junctionbox	IP67 with original MC4 connector

More technical data

Measuring accuracy Pmpp at STC	± 5 %
Operating temperature range	-40°C to +85°C
Glass thickness	3.2/2.0 mm

PROVED SOLARA® QUALITY

Quality Made in Germany

5 years product guarantee*





The somewhat longer sabbatical....

KAMILA & CHRISTIAN W., LONG-TERM SAILORS

„On our 4-year journey through Europe starting with the Netherlands, via France, Spain, Portugal, Italy, Greece and Cyprus, dreamy bays were always our front garden. Thanks to the Power M Series from Solara, we were able to enjoy nature quietly and silently, as we were constantly supplied with lots of energy from solar power.

This enabled us to be self-sufficient and close to nature. Other sailors were amazed about the efficiency of our energy supply..“

SOLARA Power M-Series

System size	1520 W, divided into 4 smaller systems
Suitable for	2 persons plus guests electric kettle, 1 freezer, refrigerators, dishwasher, computer, projector, washing machine, e-bikes, induction hotplate, ceramic heater, all on-board electrics
Products	Power M-Series
	2x Type S505M34
	2x Type S525M35
	7x Type S665M43
	Victron charge controller, 4x 200 Ah Victron Power-packs, monitoring system

Thanks to the skilful division of the solar array into smaller autonomous systems, the effectiveness of the solar system has been increased even further. This approach has proven to be very efficient in case of partial shadings.



SOLARA Power Pack HV deluxe MPPT

Quality
Made in Germany

HIGH DAILY YIELD EVEN IN PARTIAL SHADE

- Solara Power S series HV deluxe modules with black frame profile
- Victron 15 A/20 A/30 A charge controller, incl. Bluetooth for remote access via smartphone
- Aluminum spoiler set, black anodized, UV-resistant incl. screws
- ABS roof grommet, in black, for absolutely watertight cable feedthrough
- Special adhesive set SOLARA FIX PACK for bonding the spoiler and roof grommet
- Module connection cable with UV-resistant sheath and MC4 plug-in system
- Substantial installation instruction

PROVED SOLARA® QUALITY

SOLARA POWER PACKS HV DELUXE MPPT

Type	PPD120W	PPD190W	PPD240W	PPD380W
Power (W)	120	190	240	380
Daily Yield (Wh)	480	760	960	1520
Solar Panel (type)	S555M72	S875M72	S555M72	S875M72
No. of solar cells (pcs)	1	1	2	2
Solar panel size L x W x H (mm)	1250 x 550 x 35	1500 x 680 x 35	1250 x 550 x 35	1500 x 680 x 35
Total length incl. spoiler (mm)	1400	1650	2 x 1400	2 x 1650
Charger	Victron 15 A	Victron 15 A	Victron 20 A	Victron 30 A

Optional erhältlich: ABS spoilers instead of aluminum spoilers, module extension cable 2x2m with MC4 connectors

Everything delivered in one box!

5 years product guarantee*



SOLARA Premium Pack MPPT EBL

Quality Made in Germany

OPTIMALLY SUPPLIED, AS REQUIRED

- SOLARA S series modules with black frame profile
- Votronic MPPT dual-circuit charge controller incl. all necessary adapter cables
- Aluminum spoiler set, black anodized, UV-resistant incl. screws
- ABS roof grommet, in black, for absolutely watertight cable feedthrough
- Special adhesive set SOLARA FIX PACK for bonding the spoiler and roof grommet
- Module connection cable with UV-resistant sheath and MC4 plug-in system
- Substantial installation instruction

PROVED SOLARA® QUALITY

SOLARA PREMIUM PACKS MPPT EBL

Type	PPE120W	PPE190W	PPE240W	PPE380W
Power (W)	120	190	240	380
Daily yield (Wh)	480	760	960	1520
Solar panel (type)	S480M45	S760M36	S480M45	S760M36
No. of solar panels (pcs)	1	1	2	2
Solar panel size L x W x H (mm)	1250 x 550 x 35	1500 x 680 x 35	1250 x 550 x 35	1500 x 680 x 35
Total length incl. spoiler (mm)	1400	1650	2 x 1400	2 x 1650
Charger	MPP 260CI	MPP 260CI	MPP 260CI	MPP 440CI

Options: ABS spoilers instead of aluminum spoilers, module extension cable 2x2m with MC4 connectors

Everything delivered in one box!

5 years product guarantee*



SOLARA Premium Pack MPPT

Quality
Made in Germany

PROVED
SOLARA®
QUALITY

OPTIMALLY SUPPLIED, AS REQUIRED

- SOLARA S series modules with black frame profile
- MPPT charge controller Votronic 15 A/20 A/30A, incl. Bluetooth for remote access via Smartphone
- Aluminum spoiler set, black anodized, UV-resistant incl. screws
- ABS roof grommet, in black, for absolutely watertight cable feedthrough
- Special adhesive set SOLARA FIX PACK for bonding the spoiler and roof grommet
- Module connection cable with UV-resistant sheath and MC4 plug-in system
- Substantial installation instruction

SOLARA PREMIUM PACKS MPPT

Type	PPM120W	PPM190W	PPM240W	PPM380W
Power (W)	120	190	240	380
Daily yield (Wh)	480	760	960	1520
Solar panel (type)	S480M45	S760M36	S480M45	S760M36
No. of solar panels (pcs)	1	1	2	2
Solar panel size L x W x H (mm)	1250 x 550 x 35	1500 x 680 x 35	1250 x 550 x 35	1500 x 680 x 35
Total length incl. spoiler (mm)	1400	1650	2 x 1400	2 x 1650
Charger	Victron 15 A	Victron 15 A	Victron 20 A	Victron 30 A

Options: ABS spoilers instead of aluminum spoilers, module extension cable 2x2m with MC4 connectors

Everything delivered in one box!

5 years product guarantee*



SOLARA Profi Pack

Quality Made in Germany

PROVED SOLARA® QUALITY

POWERFUL SET WITH 20 A CHARGE CONTROLLER

- SOLARA S series module(s) with black frame profile
- SOLARA charge controller, 20 A, with LED indicator to indicate battery charge level
- Aluminum spoiler set, black anodized, UV-resistant incl. screws
- ABS roof grommet, in black, for absolutely watertight cable feedthrough
- Special adhesive set SOLARA FIX PACK for bonding the spoiler and roof grommet
- Module connection cable with UV-resistant sheath and MC4 plug-in system
- Substantial installation instruction

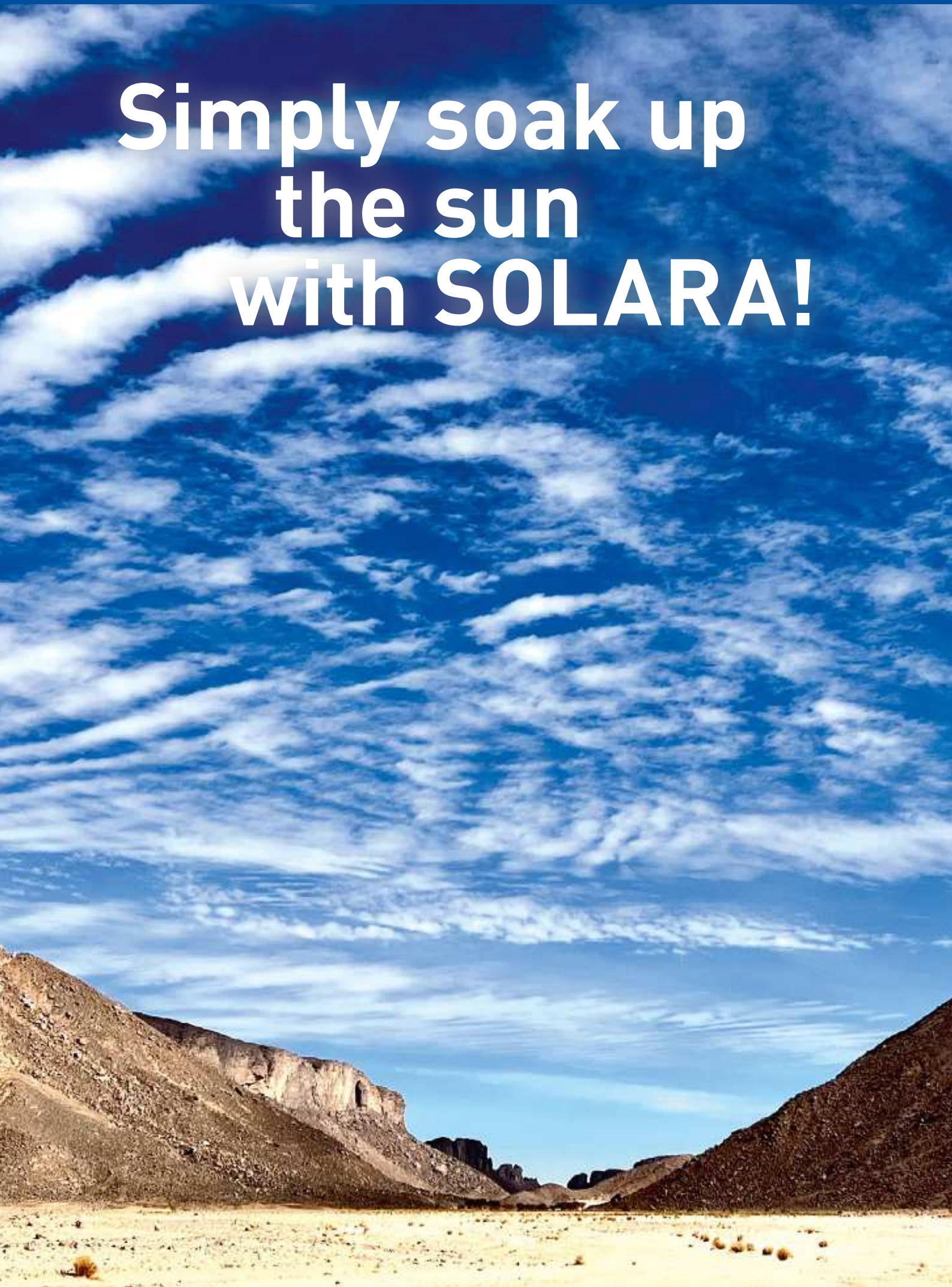
SOLARA PROFI PACKS

Type	PP120W	PP190W	PP240W
Power (W)	120	190	240
Daily yield (Wh)	480	760	960
Solar panel (type)	S480M45	S760M36	S480M45
No. of solar panels (pcs)	1	1	2
Solar panel size L x W x H (mm)	1250 x 550 x 35	1500 x 680 x 35	1250 x 550 x 35
Total length incl. spoiler (mm)	1400	1650	2 x 1400
Charger	Solara SR 340 E	Solara SR 340 E	Solara SR 340 E

Options: ABS spoilers instead of aluminum spoilers, module extension cable 2x2m with MC4 connectors

Everything delivered in one box!

5 years product guarantee*


Simply soak up
the sun
with SOLARA!



SR340 E



SR180 LCD



SR85 TL - SR175 TL

Suitable for all battery types.

SOLARA charge controllers

Your control center

We guarantee high reliability, the latest technology and easy installation at low costs. The regulated PWM characteristic guarantees optimized charging. All Solara controllers are so-called series regulators (no shunt) and thus very efficient. The load output protects your battery from deep discharge. A large and informative LCD display shows the current system status.

The features

- Automatic detection of battery voltage
- Solar power < 60 - 350 watts
- Electronically protected against overcharging, reverse polarity, overvoltage
- Battery deep discharge protection in each regulator 5 to 20 A
- Battery type selector (except SR 340 E)
- LED indicator for battery status
- Metal housing IP65 (SR 340 E)
- USB port for charging (SR 180 LCD)
- Lithium-ready (SR 180 LCD)
- Low self-consumption < 4 mA

Type	Solar panel power (W)	Current (A)	Voltage (V)	max. Open-circuit voltage (V)	Meter
SR 60 UL	60	4	12	30	LED
SR 85 TL	90/180	5	12/24	30/50	LED
SR 175 TL	180/360	10	12/24	30/50	LED
SR 340 E	340/680	20	12/24	30/50	LED
SR 180 LCD	180/360	10	12/24	30/50	LCD

PROVED SOLARA® QUALITY

Quality Made in Germany

5 years product guarantee*



SR und MPP DuoDigital



Votronic Solar Computer S



Smartphone App

EBL compatible.

Votronic charge controllers

Simultaneous charging

The VOTRONIC charge controllers are characterized by a high compatibility with many electrical systems in campers. Leading manufacturers install Votronic components and there the solar charge controllers can be perfectly integrated. Two microprocessor-controlled device series are available, the SR and the highly efficient MPP series. Both series are additionally equipped with a charging output for the vehicle starter battery. The spectrum of devices is completed with an energy and power meter for the solar array.

The features

- Recharge and charge retention of vehicle starter battery
- 2 different control methods available, SR and MPP
- High operational safety through microcontroller
- Charging programs for lead-acid, gel, AGM batteries
- LiFePO4 batteries adjustable at all MPP-charger only
  Note: temperature sensor 825 additionally required
- Continuous control, immediate recharging
- Temperature compensation
- 5 LED status indicators on the device
- For all standard solar module
- Optional: Plug and Play power meters LCD Solar Computer S or VPC

Type	Solar panel power (W)	Current (A)	Voltage (V)	max. Open-circuit voltage (V)	Meter
Votronic SR 150 DuoDigital	150	9.5	12	28	LED
Votronic SR 230 DuoDigital	230	14.5	12	28	LED
Votronic SR 350 DuoDigital	350	22	12	28	LED
Votronic SR 550 DuoDigital	550	35	12	28	LED
Votronic MPP 170 CI	170	10	12	60	LED
Votronic MPP 260 CI	260	15	12	60	LED
Votronic MPP 360 CI	360	21	12	60	LED
Votronic MPP 440 CI	440	26	12	60	LED
Solar-Computer S	for solar power and current, battery voltage, charged Ah and Wh, compatible with SR- and MPP series				
EBL connection cable					
Temp. sensor 825					
BT connector S-BC Bluetooth Connector, incl. Energy Monitor App					

PROVED SOLARA® QUALITY

Quality Made in Germany



MPPT 75/15



Orion XS 12 | 12


Smart Shunt


Smartphone App

Bluetooth smart integrated.

Victron MPPT charge controllers

Ultra-fast maximum power point tracking (MPPT)

In particular, when the sky is over casted, when the light intensity changes constantly, an extremely fast MPPT controller improves the energy yield by up to 30% compared to PWM charge controllers.
You can remotely control and monitor the extensive features of your SmartSolar MMPT charger by connecting it via Bluetooth with your smartphone or other device via the VictronConnect app.

The features

- Ultrafast Maximum Power Point Tracking (MPPT)
- Advanced maximum power point detection for partial shading
- BatteryLife: intelligent battery management through load shedding
- Load output on the small models
- Automatic battery voltage detection
- Flexible charging algorithms
- Overheating protection and load reduction at high temperatures

Type	Solar panel power (W)	Current (A)	Voltage (V)	max. Open-circuit voltage (V)	Meter
MPPT 75/10 *	145/290	10	12/24	75	LED
MPPT 75/15 *	220/440	15	12/24	75	LED
MPPT 100/15 *	220/440	15	12/24	100	LED
MPPT 100/20 *	290/580/870	20	12/24/48	100	LED
MPPT 100/30 *	440/880	30	12/24	100	LED
MPPT 100/50 *	700/1400	50	12/24	100	LED
MPPT 150/35 *	500/1000/2000	35	12/24/48	150	LED
MPPT 150/45 *	650/1300/2600	45	12/24/48	150	LED
MPPT 150/60 *	860/1720/3440	60	12/24/48	150	LED
Orion XS charging booster	12/12–50 A DC-DC-charger				
Orion XS 1400 charging booster	12 V/24 V DC-DC-charger				
Smart Shunt 500A/50mV	Measuring shunt with Bluetooth connection. Can be read out on a smartphone and the app.				
more Victron items on request					

* Bluetooth integrated

PROVED SOLARA® QUALITY

Top-quality.



SunSaver 6-20



SunSaver Duo



EcoPulse mit Display

Morningstar charge controllers

Professional battery charging

A broad performance spectrum, innovative functions, robust design and high efficiency characterize the MorningStar solar charge controllers. ISO9001 manufacturing, quality control with 100% functional testing ensure quality, reliability and longevity in the application. Over 2 million devices are installed in over 112 countries until today.

The features

- Epoxy resin-moulded board
- For gel-type and AGM batteries
- With temperature sensor and deep discharge protection
- Built-in or remote display available
- PWM charging characteristic, Series design
- Automatic 12/24 V detection
- All fuses electronically
- Low self-consumption < 8 mA
- Top quality with 5 years guarantee, EcoPulse 2 years

Type	Solar panel power (W)	Current (A)	Voltage (V)	max. Open-circuit voltage (V)	Meter
SunSaver 6L	110	6	12	25	LED
SunSaver 10L	170	10	12	25	LED
SunSaver 20L	340	20	12	25	LED
SunSaver Duo Basic	425	25	12	30	LED
SunSaver Duo	425	25	12	30	LCD
EcoPulse 10	170/340	10	12/24	60	LED
EcoPulse 10M	170/340	10	12/24	60	LCD
EcoPulse 20	340/680	20	12/24	60	LED
EcoPulse 20M	340/680	20	12/24	60	LCD
EcoPulse 30	510/1020	30	12/24	60	LED
EcoPulse 30M	510/1020	30	12/24	60	LCD
TriStar 45	750/1500/3200	45	12/24/48	60	LED
TriStar 60	1000/2000/4000	60	12/24/48	60	LED

PROVED
SOLARA®
QUALITY

5 years product guarantee*

For the highest demands.


SunSaver MPPT


ProStar MPPT mit Display


TriStar MPPT 30/45/60


EcoBoost mit Display

For professionals who wants more

Highest efficiency and high yields with MorningStar MPPT TrackStar technology. Solar voltages of 150 V or 600 V allow the use of large high-performance solar modules. In off-grid, telecommunication, oil, gas, lighting, monitoring and traffic systems, MPPT controllers are mainly used. The various network and communication options make them versatile.

The features

- Max. solar open circuit voltage 150 V and 600 V
- Very good yields thanks to TrakStar MPPT technology
- For all battery types, lithium-ready
- Automatic 12/24/48 V detection
- For large systems with up to 60 A solar current
- With temperature sensor and depth discharge protection
- Many network and communication options
- MODBUS protocol
- 200-day data logger
- Programmable via MS-View software
- All fuses electronically
- Robust design without fan
- Top quality with 5 years guarantee

Type	Solat panel power (W)	Current (A)	System Voltage (V)	max. Open-circuit voltage (V)	Meter
SunSaver MPPT 15L	200/400	15	12/24	75	LED
ProStar MPPT 25	350/700	25	12/24	120	LED
ProStar MPPT 25M	350/700	25	12/24	120	LCD
ProStar MPPT 40	550/1100	40	12/24	120	LED
ProStar MPPT 40M	550/1100	40	12/24	120	LCD
TriStar MPPT 30	400/800/1600	30	12/24/48	150	LED
TriStar MPPT 45	600/1200/2400	45	12/24/48	150	LED
TriStar MPPT 60	800/1600/3200	60	12/24/48	150	LED

Type	Solat panel power (W)	Current (A)	System Voltage (V)	max. Open-circuit voltage (V)	Meter
EcoBoost MPPT 20	300/600	20	12/24	120	LED
EcoBoost MPPT 20M	300/600	20	12/24	120	LCD
EcoBoost MPPT 30	400/800	30	12/24	120	LED
EcoBoost MPPT 30M	400/800	30	12/24	120	LCD
EcoBoost MPPT 40	560/1120	40	12/24	120	LED
EcoBoost MPPT 40M	560/1120	40	12/24	120	LCD

PROVED
SOLARA®
QUALITY

5 year product guarantee*



SOLARA – always a good connection



SOLARA ABS- and Aluminium mounting spoiler

The optimal fastening

Holding spoilers are the optimal fastening for solar modules. They are available in different colours and are perfect for RV's, camper or caravans. Simply glue instead of screw. Due to their aerodynamic shape, they are at the same time a mounting system and wind deflector, so that no disturbing noise can occur.
We only use high-quality, specially coated, UV-resistant ABS plastic or anodized aluminum so that our mounting spoilers remain permanently dimensionally stable and colour-stable.

The features

- The optimum combination of functionality and appearance
- About 50 % lighter than other conventional spoilers
- UV-stable
- The aerodynamic shape does not produce any disturbing wind noise
- 100 % recyclable
- All necessary screws included

SOLARA ABS-mounting spoiler	Art.-No.	Max. solar panel width	Pc/set
Mounting spoilers set	HS35/W	350 mm	2
Mounting spoilers set	HS45/W	450 mm	2
Mounting spoilers set	HS55/X*	550 mm	2
Mounting spoilers set	HS68/X*	680 mm	2
Edge spoilers set	HSE/X*	all type of solar panels	4
Universal mounting spoilers set	HSV/X*	all type of solar panels	2

* X = white or black

SOLARA Aluminium mounting spoiler	Art.-No.	Max. solar panel width	Pc/set
Mounting spoilers set	AS550/Y*	550 mm	2
Mounting spoilers set	AS680/Y*	680 mm	2

* Y = silver or black

Caution: Installation with the SOLARA FIX PACK only!

PROVED SOLARA® SAFETY

Quality Made in Germany

5 years product guarantee*

Tested, permanently waterproof.


DD1/W


DD2/W


DD1/S


DD2/S

SOLARA ABS-roof grommet & adhesive set

Professional aerodynamic roof grommet

The optimum combination of functionality and appearance for the cable entry into the vehicle.A wide adhesive seam and a waterproof PG screw connection facilitate secure installation. Suitable for cable diameters from 4 mm to 13.5 mm. Simply fixed with the ABS special adhesive from our SOLARA FIX PACK and a secure and permanently watertight cable entry to the interior is guaranteed.

The features

- Lightweight
- Aerodynamic shape, there are no disturbing wind noises
- Special coated ABS plastic
- UV-stable
- 100 % recyclable

Type	Art.-No.	No. of inlets
Roof grommet	DD1/W	1 x PG13.5 for 1 cable
Roof grommet	DD1/S	1 x PG13.5 for 1 cable
Roof grommet	DD2/W	2 x PG13.5 for 2 cables
Roof grommet	DD2/S	2 x PG13.5 for 2 cables

SOLARA adhesive kit Fix Pack

The ABS special adhesive set is specially developed for the SOLARA ABS-mounting spoilers and roof grommets, aluminium brackets, as well as for bonding the SOLARA M and Power M-series.
The single-component MS polymer adhesive is completely non-toxic.



Tested, secured bonding.

Type	Description
SOLARA adhesive set Fix Pack	Cartridge 290 ml, primer (Dekavator) cleaning cloth, sanding pad, colour: white
SOLARA adhesive set Fix Pack	Cartridge 290 ml, primer (Dekavator) cleaning cloth, sanding pad, colour: black

PROVED SOLARA® SAFETY

Quality Made in Germany

5 years product guarantee*



SOLARA accessories

Easy to handle
With the SOLARA accessories, the installation becomes a breeze. High-quality connectors, rugged cables, pre-assembled connection cables, cable charge controllers - all professional components for quick and easy installation. Our cables are suitable for outdoor use.

Type	Description
Connection cable / connectors	
Dc-Connect-C, 4 mm²	Connection cable module - controller with MC4 connectors, length 5 m, size 2x 4mm2, fits to all Solara and DcSolar modules
Dc-Connect-C, 2.5 mm²	Connection cable module - controller with MC4 connectors, length 5 m, size 2x 2.5 mm², fits to all Solara and DcSolar modules
Dc-Connect-M	Connection cable for modules with MC4 connectors, length 2 m, size 2x 4 mm²
Dc-Connect-B	Connection cale charge controller - battery, assembled with fuse and cable lugs,length 1 m, size 2x 6 mm²
MC4 Y-Set	Y-adapter set for parallel connection of two modules, set with plus and minus
MC4 PV Stick	MC4 connectors, DIY, tool-free, set with plus and minus
Charge controller	
Fox-062	Cable charge controller, max. solar current 8A, system voltage 12V, adjustable to different battery types
Cellprotector	Hotspot protector for SOLARA M-Series Modules
EBL connection cable	Connection wire for any solar controller with Schaudt EBL
Aluminium brackets	
HSP	Silver aluminium bracket for module mounting, max. module size 1300 x 560 mm, set with 4 brackets, incl. screws
HSP400	Silver aluminium bracket for module mounting, max. module size 1500 x 700 mm, set with 6 brackets, incl. screws
HSP/sw	Black aluminium bracket for module mounting, max. module size 1300 x 560 mm, set with 4 brackets, incl. screws
HSP400/sw	Black aluminium bracket for module mounting, max. module size 1500 x 700 mm, set with 6 brackets, incl. screws
Deck seals	
Deck seal	Scanstrut DS-H6, for 1 cable, cable diameter 2-6 mm, incl. several sealings
Deck seal	Scanstrut DS-H10, for 1 cable, cable diameter 6-10 mm, incl. several sealings
Deck seal	Scanstrut DS Multi, several cables, cable diameter up to 15 mm
Deck seal	Scanstrut DS-HD6, for 2 cables, cable diameter up to 6 mm max., incl. several sealings
Deck seal	Scanstrut DS-HD10, for 2 cables, cable diameter 6-10 mm, incl. several sealings

PROVED SOLARA® QUALITY

DCsolar – strong power on the go!

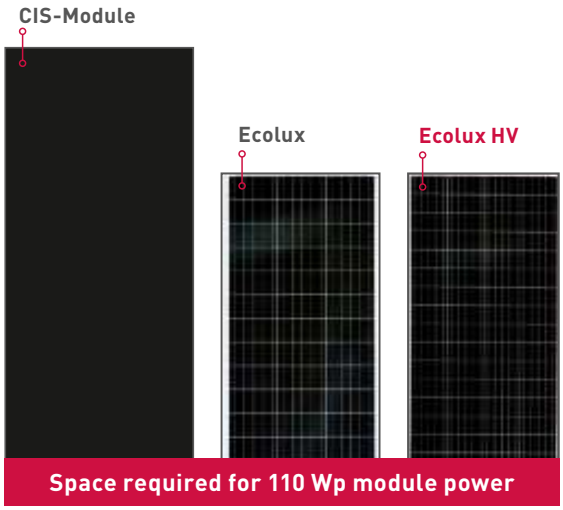


DCsolar
designed by SOLARA®

DCSOLAR MODULES FOR ALL CASES

The Ecolux HV-series with its especially for mobile use developed solar cells, has in addition to a natural, higher cell voltage, an excellent low-light and temperature behavior, so that even at low irradiation sufficient voltage is built up to charge the on-board batteries.

If only limited space is available, the Ecolux HV series is the perfect solution. as it requires up to 21 % less space than a standard crystalline standard module and even more than 45 % less compared to a thin-film module (e.g. CIS), and that with a weight of just under 7.0 kg compared to the 16.0 kg of a comparable 110 watt CIS module.



DCsolar ALL-IN-ONE SOLUTIONS

Are you looking for a high-quality solar complete set for a fair price? Then DCsolar products are exactly the right choice!

SOLARA offers with the brand DCsolar optimally assembled complete sets. All necessary components are delivered in a box together with detailed installation instructions, everything plug and play!

CERTIFICATIONS AND TESTS

- Mechanical stress tests
- Climate test of the entire module
- Degradation test
- Check for micro cracks on the cells

PROVED DCsolar QUALITY

Engineered in Germany



DCsolar Power Flex

TOP PERFORMANCE - FOR HIGHEST DEMANDS

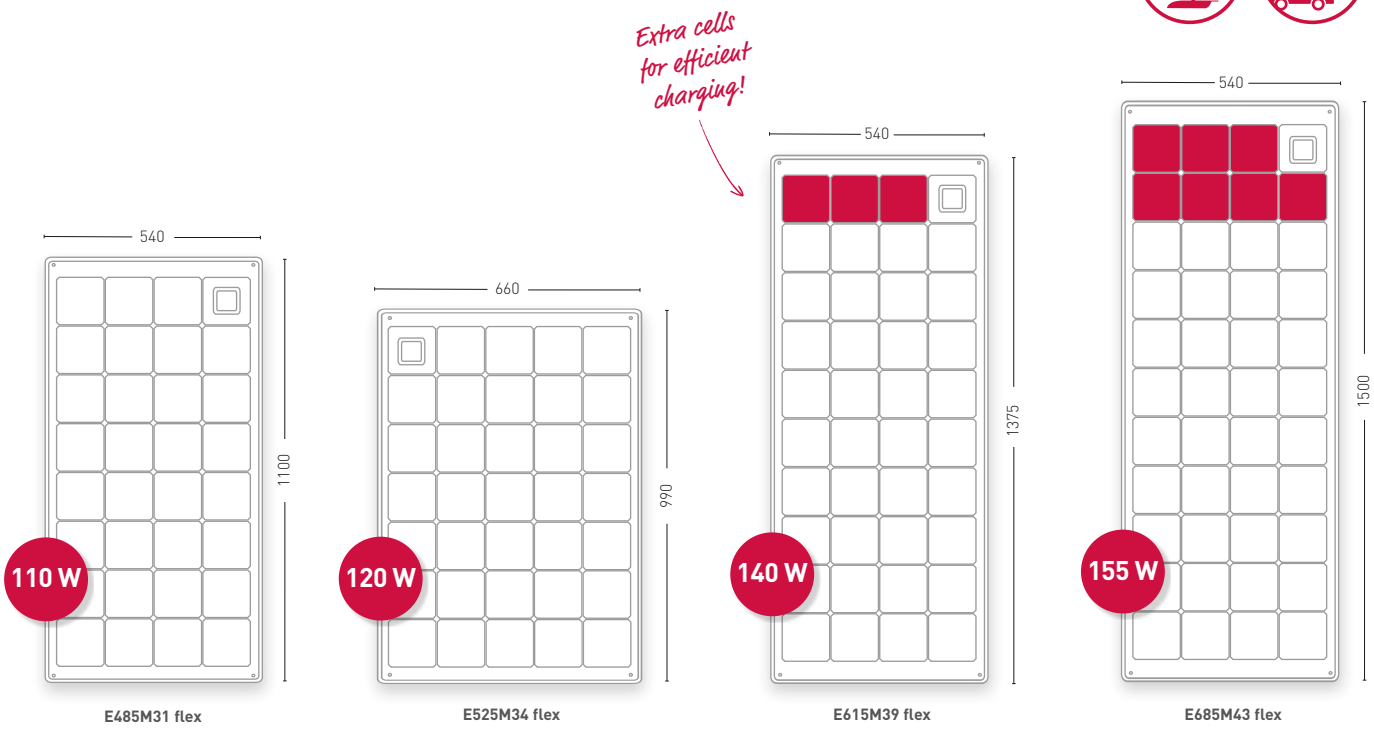
- Semi-flexible solar module, stable due to a 2 mm aluminium support plate
- Lightweight and fully walkable
- Solar cells with over 23 % efficiency
- Fully encapsulated cells by bonding front and back side foils
- Adapts to curved roof surface
- Monocrystalline solar cells with high efficiency
- Highest daily yields on the smallest surface even in low light conditions







DCsolar Power Flex-Series



PERFORMANCE

Type	E485M31 flex	E525M34 flex	E615M39 flex	E685M43 flex
Daily output in summer in Germany (Ø) Wh/d	485	525	615	685
Rated output * (Pmpp) Wp	110	120	140	155
Short-circuit current (Isc) A	6.10	6.10	6.19	6.20
Open-circuit voltage (Uoc) V	22.3	24.5	28.1	30.9
Voltage (Umpp) V	19.2	21.1	24.2	26.6
Current (Impp) A	5.70	5.70	5.79	5.83
No. of cells	31	34	39	43

* Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1100 x 540 x 4	990 x 660 x 4	1375 x 540 x 4	1500 x 540 x 4
Weight kg	4.3	4.5	4.9	5.2
Cell dimensions mm	125 x 125	125 x 125	125 x 125	125 x 125

Thermal properties (per cell)

TK Pmpp %/°C	-0.29
TK Uoc mV/°C	-1.74
TK Isc mA/°C	2,.90
NOCT °C	46 ± 2

Used materials

Cell technology	Sunpower, monocrystalline with back contact
Front-/backside	ETFE foil at front and backside, foils welded all along the edge
Bypass diodes	Integrated in cable outlet
Connection cable	3 m, 2 x 2.5 mm²

More technical data

Measuring accuracy Pmpp at STC	-5 / +10 %
Operating temperature range	-40°C to +85°C

PROVED DCsolar QUALITY

Engineered in Germany

3 years product guarantee*



DCsolar Power Move

MAXIMUM PERFORMANCE AT THE HIGHEST QUALITY

- Highest daily yields by using TOPCon cells with up to 23 % efficiency
- High yield in every season due to the best low-light behaviour, even in diffused light
- Three modules in one - each with 32 cells per module field - connected in parallel - thus shaddow resistant
- 5 m cable with mobile cable solar charging controller (for Gel, AGM, liquid and Li-batteries) with 12 V car standard plug
- Elegant distinctive design
- Sewn in sturdy textile fabric
- Foldable and portable, small convenient size

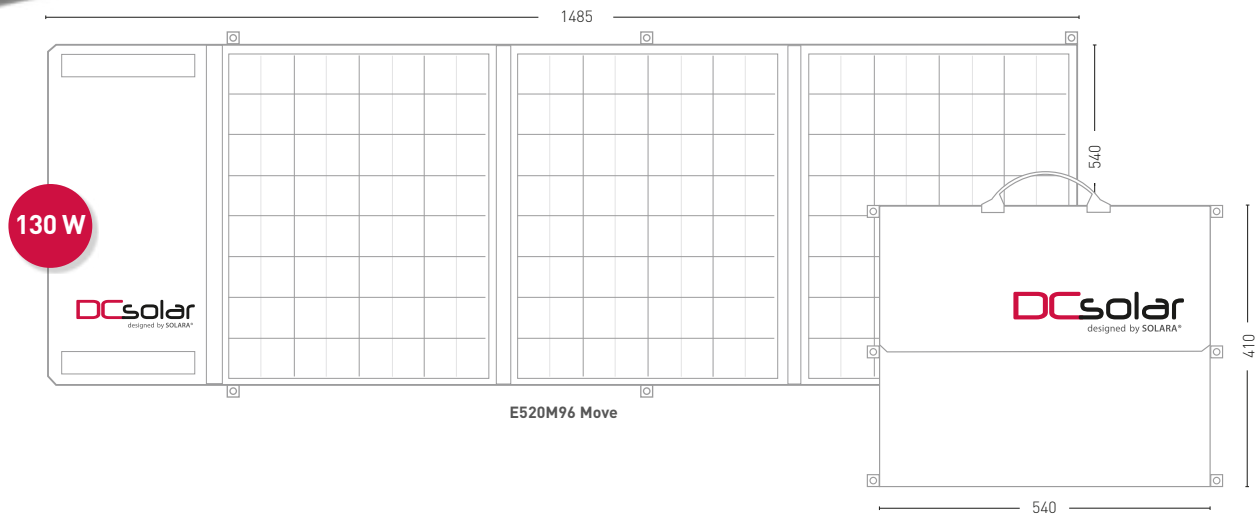






DCsolar Power Move

Now even smaller with even more power!



PERFORMANCE

Type	E520M96 Move
Daily output in summer in Germany (Ø) Wh/d	520
Rated output[1] (Pmpp) Wp	130
Short-circuit current (Isc) A	7.20
Open-circuit voltage (Uoc) V	22.40
Voltage (Umpp) V	19.20
Current (Impp) A	6.87
No. of cells	96 (3 x 32)

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1485 x 540 x 30
Weight kg	3.4
Cell dimensions mm	90 x 60

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

More technical data

Measuring accuracy Pmpp at STC	-5 / +10 %
Operating temperature range	-40°C to +85°C

Used materials

Cell technology	Monocrystalline TOPCon with > 23 % efficiency
Connection cable	5 m, 2 x 1.5 mm²

Scope of delivery: Cable charge controller Fox-062 and 5 m connecting cable
Options: Extension cable with SureSeal plugs 5 m | adapter with XT60 plug for connection to a power station | Loxx buttons | eyelet set with hole punsh | magnet set for metal surfaces or canvas

PROVED DCsolar QUALITY

Engineered in Germany


Adapterkabel XT60


Chargecontroller FOX-062

3 years product guarantee*



DCsolar OBD-2 battery charger

ONE FOR ALL VEHICLES SOLAR CHARGER WITH 14/28 WATT

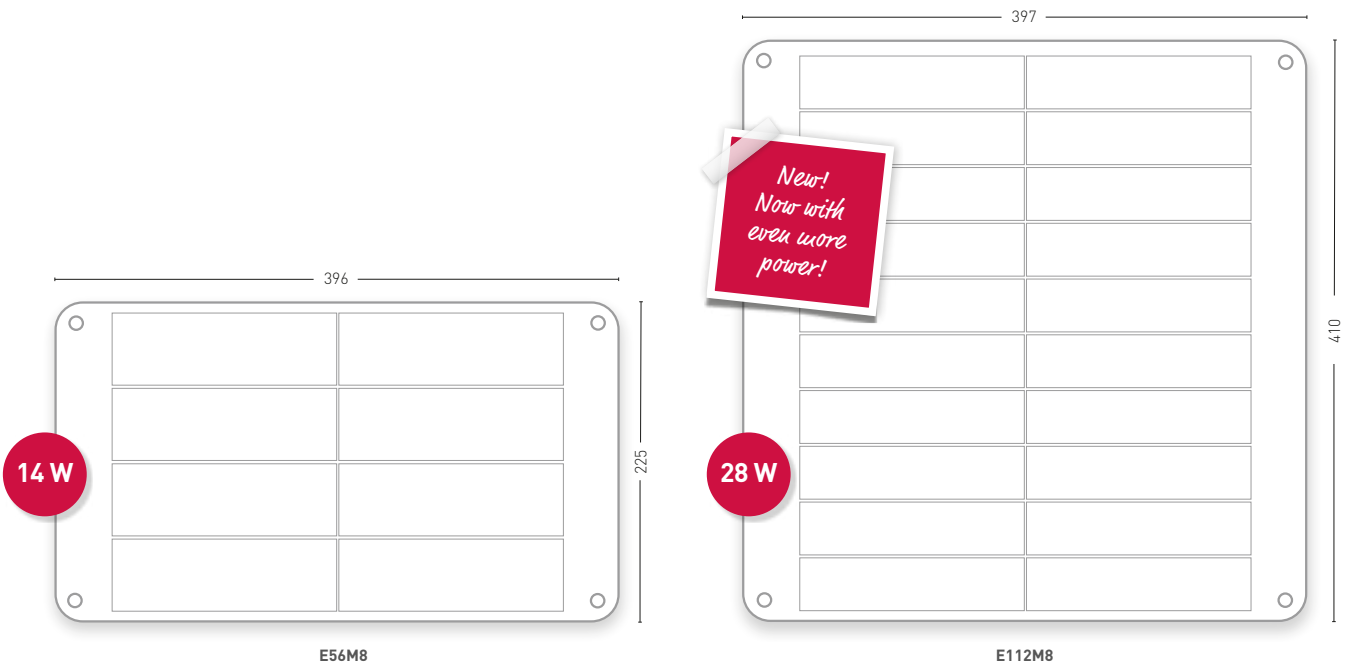
- Effective compensation of self discharging
- Specificly developed for RVs, Camper vans etc.
- Solar module can be fixed easily with suction cups to the windshield or dashboard
- Comfortable and easy connection with OBD-2 connector to the vehicle
- Integrated control board to prevent over-charging and discharging
- High efficient and low-light active mono-crystalline solar cells guarantee all year usability
- Extremely robust due to ETFE foils on both sides
- Compact shape, environmental friendly







DCsolar OBD-2 battery charger



PERFORMANCE

Type	E56M8	E112M8
Daily output in summer in Germany (Ø) Wh/d	56	108
Rated output[1] (Pmpp) Wp	14	28
Voltage (Umpp) V	14.40	14.40
Current (Impp) A	0.99	1.5
No. of cells	8	20

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	396 x 225 x 4	397 x 410x 4
Weight kg	0.59	1.2
Cell dimensions mm	158 x 51	158 x 38

Thermal propert

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	Monocrystalline PERCwith > 22 % efficiency
Front/back	ETFE foil at front and backside, foils welded all along the edge
Connection cable	2.2 m, OBD2-connector

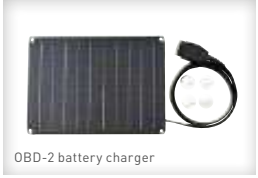
More technical data

Measuring accuracy Pmpp at STC	-5 / +10 %
Operating temperature range	-40°C to +85°C

Scope of delivery: integrated charge controller, 4x suction cups, safety cord, detailed manual

Everything delivered in one box!


Suction cups


OBD-2 battery charger

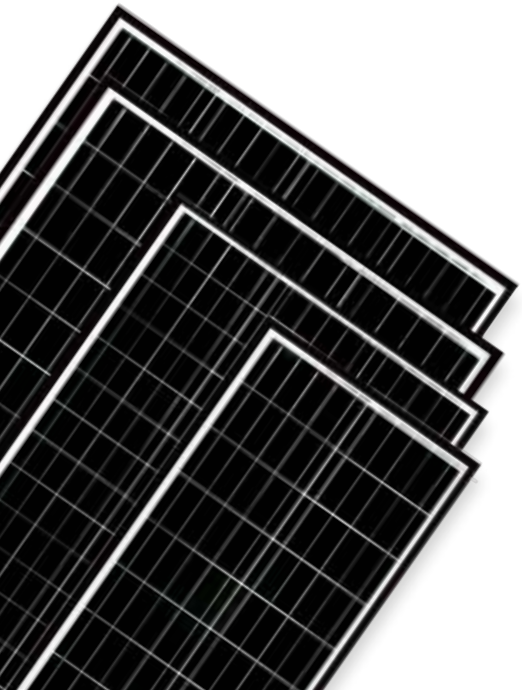
3 years product guarantee*



DCsolar Ecolux HV-Series

TOP PERFORMANCE - DEVELOPED FOR THE HIGHEST DEMANDS

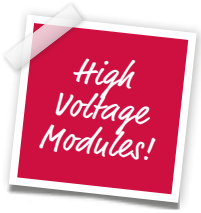
- ↗ High-yield MonoPerc solar cells with > 22 % efficiency
- ↗ 44/72 cells for maximum yields in combination with MPPT controllers
- ↗ 72 cell modules can be used in 12 V and 24 V systems
- ↗ Best low light performance
- ↗ Temperature stable voltage
- ↗ Stable black hollow chamber profile frame
- ↗ Original MC4 connector
- ↗ High transmissive solar glass

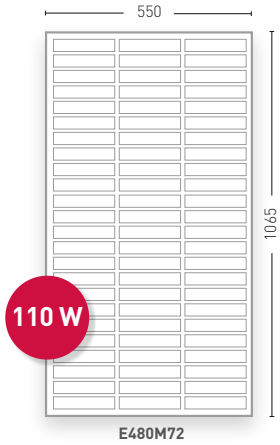


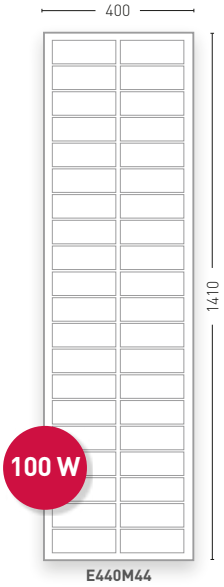




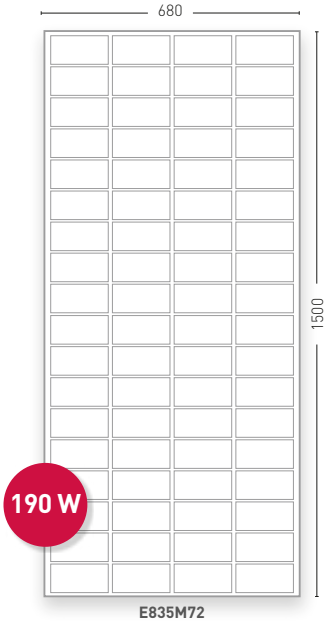
DCsolar Ecolux HV-Series











PERFORMANCE

Type	E480M72	E440M44	E745M72	E835M72
Daily output in summer in Germany (Ø) Wh/d	480	440	745	835
Rated output[1] (Pmpp) Wp	110	100	170	190
Short-circuit current (Isc) A	2.83	4.45	4.55	4.87
Open-circuit voltage (Uoc) V	48.47	29.58	48.76	49.75
Voltage (Umpp) V	39.95	23.70	40.42	41.63
Current (Impp) A	2.75	4.05	4.21	4.59
No. of cells	72	44	72	72

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	1065 x 550 x 35	1410 x 400 x 35	1350 x 680 x 35	1500 x 680 x 35
Weight kg	6.8	7.2	9.3	10.3
Frame color	schwarz	schwarz	schwarz	schwarz

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	Monocrystalline PERC with > 22 % efficiency
Frontside	Tempered solar glass, hail resistant
Frame	Anodized aluminium hollow profile, black
Junctionbox	IP67 with original MC4 plug connectors

More technical data

Measuring accuracy Pmpp at STC	-5 / +10 %A
Operating temperature range	-40°C to +85°C

PROVED DCsolar QUALITY

Engineered in Germany

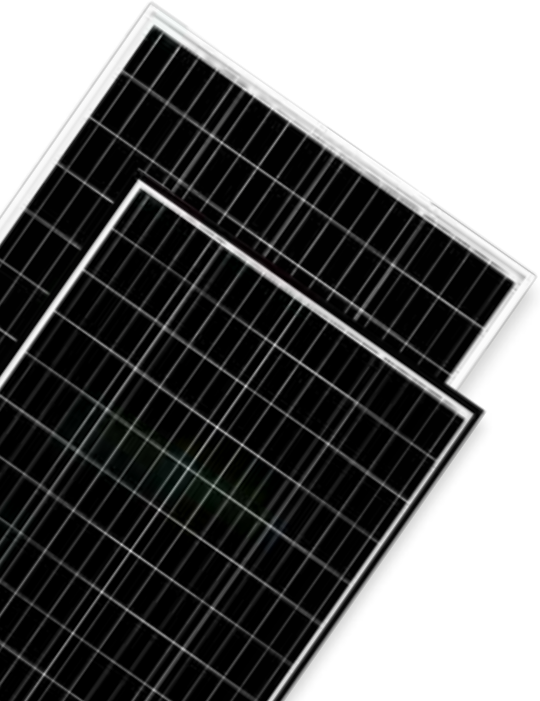
3 years product guarantee*



DCsolar Ecolux-Series

SUPERIOR MODULAR TECHNOLOGY - VERSATILE APPLICABLE

- High-yield MonoPerc solar cells with > 22% efficiency
- Extra solar cells for efficient charging
- Black stable, torsion-free hollow chamber profile frame
- MC4 compatible connector
- High transmissive solar glass
- Hail resistant

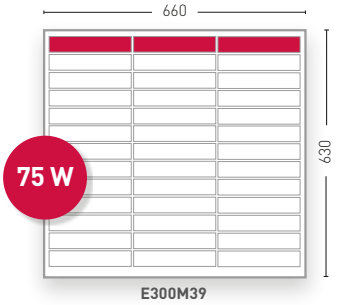


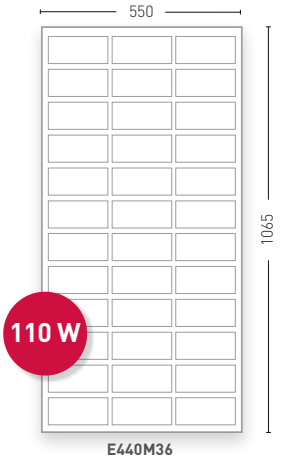


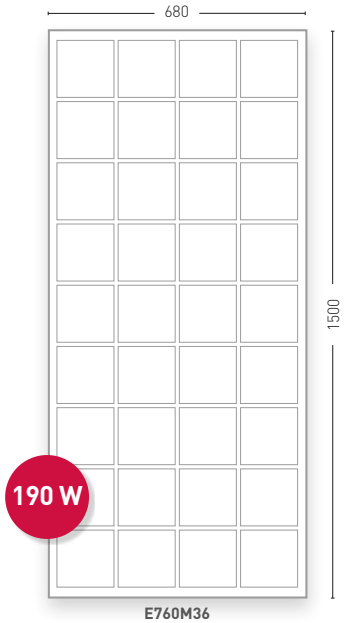


DCsolar Ecolux-Series

Now smaller and with even more power!







PERFORMANCE

Type	E300M39	E440M36	E760M36
Daily output in summer in Germany (Ø) Wh/d	300	440	760
Rated output[1] (Pmpp) Wp	75	110	190
Short-circuit current (Isc) A	3.63	5.79	9.74
Open-circuit voltage (Uoc) V	26.26	24.24	24.88
Voltage (Umpp) V	21.71	19.24	20.82
Current (Impp) A	3.45	5.51	9.17
No. of cells	39	36	36

[1] Performance at STC, Standard Testing Conditions: 1000 W/m², AM 1.5, cell temperature 25° C

Dimensions and weight

Dimensions (L x W x H) mm	630 x 660 x 35	1065 x 550 x 35	1500 x 680 x 35
Weight kg	5.0	6.8	10.3
Frame color	silver	black	silver

Thermal properties

TK Pmpp %/°C	-0.42
TK Uoc %/°C	-0.32
TK Isc %/°C	0.04
NOCT °C	46 ± 2

Used materials

Cell technology	Monocrystalline PERC with > 22 % efficiency
Frontside	Tempered solar glass, hail resistant
Frame	Anodized aluminium hollow profile, black
Junctionbox	IP67 with original MC4 plug connectors

More technical data

Measuring accuracy Pmpp at STC	-5 / +10 %
Operating temperature range	-40°C to +85°C

PROVED DCsolar QUALITY

Engineered in Germany

3 years product guarantee*



DCsolar Power Set MPPT High Voltage

HIGH DAILY YIELDS WITH MPPT TECHNOLOGY

- Ecolux HV-Series module(s)
- Victron MPPT charge controller, incl. Bluetooth
- High-quality aluminium bracket set, incl. screws
- Roof grommet, UV-stable with one cable entry
- Fix Pack adhesive kit
- Connection cable for module to charge controller incl. 2 x MC4 connectors
- MultiContact Y-connector
- Detailed mounting instructions

DCsolar POWER SETS MPPT HV

Type	PSM 110HV	PSM 170HV	PSM 190HV	PSM 220HV
Power (W)	110	170	190	220
Daily yield (Wh)	480	745	835	960
Solar panel (type)	E480M72	E745M72	E835M72	E480M72
No. of solar panels (pcs)	1	1	1	2
Solar panel size L x W x H (mm)	1065 x 550 x 35	1350 x 680 x 35	1500 x 680 x 35	1065 x 550 x 35
Charger	Victron MPPT 75/15	Victron MPPT 75/15	Victron MPPT 75/15	Victron MPPT 75/15
No. of cells	72	72	72	72

Everything delivered in one box!

PROVED DCsolar QUALITY



DCsolar Power Set MPPT EBL High Voltage

HIGH DAILY YIELDS WITH MPPT TECHNOLOGY

- Ecolux HV-Series module(s)
- Victron Duo MPPT charge controller incl. all necessary adapter cables
- High-quality aluminium bracket set, incl. screws
- Roof grommet, UV-stable with one cable entry
- Fix Pack adhesive kit
- Connection cable for module to charge controller incl. 2 x MC4 connectors
- MultiContact Y-connector
- Detailed mounting instructions

DCsolar POWER SETS MPPT EBL HV

Type	PSE 110HV	PSE 170HV	PSE 190HV	PSE 220HV
Power (W)	10	170	190	220
Daily yield (Wh)	480	745	835	960
Solar panel (type)	E480M72	E745M72	E835M72	E480M72
No. of solar panels (pcs)	1	1	1	2
Solar panel size L x W x H (mm)	1065 x 550 x 35	1350 x 680 x 35	1500 x 680 x 35	1065 x 550 x 35
Charger	Votronic MPP260CI	Votronic MPP260CI	Votronic MPP260CI	Votronic MPP260CI
No. of cells	72	72	72	72

Everything delivered in one box!

PROVED DCsolar QUALITY



DCsolar Power Set Profi

BESTSELLER IN PROOFED QUALITY

- Ecolux Series module(s)
- Solara Charge Controller SR 340 E
- High-quality aluminium bracket set, incl. screws
- Roof grommet, UV-stable with one cable entry
- Fix Pack adhesive kit
- Connection cable for module to charge controller incl. 2 x MC4 connectors
- MultiContact Y-connector
- Detailed mounting instructions

DCsolar POWER SETS PROFI

Type	PSP 100	PSP 110	PSP 190	PSP 220
Power (W)	100	110	190	220
Daily yield (Wh)	440	440	760	880
Solar panel (type)	E440M44	E440M36	E760M36	E440M36
No. of solar panels (pcs)	1	1	1	2
Solar panel size L x W x H (mm)	1410 x 400 x 35	1065 x 550 x 35	1500 x 680 x 35	1065 x 550 x 35
Charger	Solara SR 340 E	Solara SR 340 E	Solara SR 340 E	Solara SR 340 E
No. of cells	44	36	36	36

Everything delivered in one box!

PROVED DCsolar QUALITY



DCsolar accessories

Easy to handle
With the DCsolar accessories, the installation becomes a breeze. High-quality connectors, rugged cables, pre-assembled connection cables, cable charge controllers - all professional components for quick and easy installation. Our cables are suitable for outdoor use.

Type	Description
Connection cable / connectors	
Dc-Connect-C, 4 mm²	Connection cable module - controller with MC4 connectors, length 5 m, size 2x 4mm2, fits to all Solara and DcSolar modules
Dc-Connect-C, 2.5 mm²	Connection cable module - controller with MC4 connectors, length 5 m, size 2x 2.5 mm², fits to all Solara and DcSolar modules
Dc-Connect-M	Connection cable for modules with MC4 connectors, length 2 m, size 2x 4 mm²
Dc-Connect-B	Connection cale charge controller - battery, assembled with fuse and cable lugs,length 1 m, size 2x 6 mm²
MC4 Y-Set	Y-adapter set for parallel connection of two modules, set with plus and minus
MC4 PV Stick	MC4 connectors, DIY, tool-free, set with plus and minus
Charge controller	
Fox-062	Cable charge controller, max. solar current 8A, system voltage 12V, adjustable to different battery types
Cellprotector	Hotspot protector for SOLARA M-Series Modules
EBL connection cable	Connection wire for any solar controller with Schaudt EBL
Aluminium brackets	
HSP	Silver aluminium bracket for module mounting, max. module size 1300 x 560 mm, set with 4 brackets, incl. screws
HSP400	Silver aluminium bracket for module mounting, max. module size 1500 x 700 mm, set with 6 brackets, incl. screws
HSP/sw	Black aluminium bracket for module mounting, max. module size 1300 x 560 mm, set with 4 brackets, incl. screws
HSP400/sw	Black aluminium bracket for module mounting, max. module size 1500 x 700 mm, set with 6 brackets, incl. screws
Deck seals	
Deck seal	Scanstrut DS-H6, for 1 cable, cable diameter 2-6 mm, incl. several sealings
Deck seal	Scanstrut DS-H10, for 1 cable, cable diameter 6-10 mm, incl. several sealings
Deck seal	Scanstrut DS Multi, several cables, cable diameter up to 15 mm
Deck seal	Scanstrut DS-HD6, for 2 cables, cable diameter up to 6 mm max., incl. several sealings
Deck seal	Scanstrut DS-HD10, for 2 cables, cable diameter 6-10 mm, incl. several sealings

PROVED DCsolar QUALITY

Solutions for any application



SOLARA®
module. komponenten. systeme

EVERYTHING FROM ONE SOURCE

Whether road sign, radio mast, navigation mark or an isolated hospital in the desert. No matter what application, electricity is becoming increasingly important and SOLARA solar systems provide just that energy. Through many years of experience, our engineers can plan exactly the system size your application needs. With us you get everything from one source. Solar modules, electronics, batteries – everything individually planned and adapted to the needs.

PROVEN QUALITY FOR OVER 30 YEARS

Our customers are satisfied because we deliver long-lasting and reliable solar systems. Our systems always use the latest technologies and materials to make our systems better and more powerful.

STRONG BRANDS

In order to meet professional demands professional products are required. Our suppliers are not only leaders in their respective field, also our partners since many years.
Behind our strong brands is always plenty of experience, short communication channels, quick help and fast availability - usually directly from stock.

MORNINGSTAR corporation

SONNENSTROM FABRIK

HOPPECKE POWER FROM INNOVATION

victron energy BLUE POWER

phocos

STUDER

HIS we connect solar energy

Renusol Europe GmbH

Rolls





Small off-grid system made with 6 SOLARA solar modules

RALF Z., ECOLOGIST

„Our 6 serial connected Excellent solar modules with 325 W each are producing DC-current, which we charge via a Phocos Hybrid-inverter into a 24 V battery system.

The integrated inverter converts the batteries energy into 230 V AC.

So there is always enough energy available to support our well pump to irrigate our plants.“

SOLARA Excellent-Series

System size	1,950 W
Suitable for	commercial applications
Products	6 x Solara Excellent 325M60 with 325 W each
	1 x Hybrid-Inverter-Charger Phocos PSW-H-5kW
	4 x Victron Gel-type batteries, 130 Ah c10, incl. connectors

↗ **More details on powerfull off-grid equipment can be found from page 56**



Top quality for off-grid use.

Independent energy supply

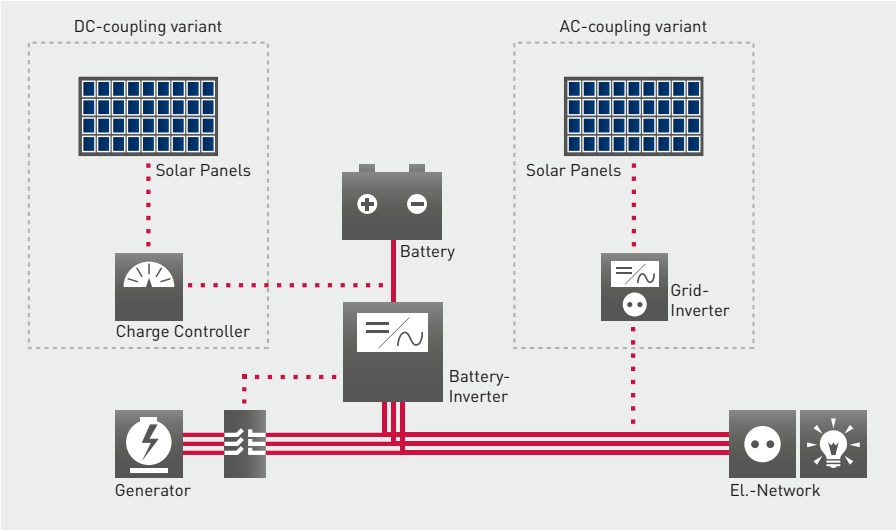
INDEPENDENCY

A functioning power grid is not always available, even if it seems quite natural. Bad or inadequate infrastructure is the most common cause. It looks even more difficult if there is no power grid at all, but you still need a reliable power supply: Here, solar technology is often the only solution. **SOLARA offers such solutions:** individually planned, adapted to the needs, a properly functioning system with solar power where it is needed.

DEVELOPMENT

Around two billion people on earth have no access to reliable energy supply. However, especially in remote regions, the availability of electricity is one of the most important keys to sustainable development. Solara photovoltaic power plants and components are specifically designed for use in these areas: **reliable and very powerful.**

The Off-Grid System



PLANNING A SYSTEM – THE SOLARA PLANNING SHEET

To be able to serve a purpose reliably, they have to be planned precisely and adapted to the specific needs, the site and the consumer's behaviour.

Such systems include on the one hand energy sources, such as a generator, a solar array, a wind turbine or a combination of different sources to generate the required energy locally and on the other hand, the devices (battery charger and inverter) to store the energy locally in batteries and to supply the consumers with AC voltage.

Use our detailed planning sheet for your system enquiry. It is made to retrieve all relevant information and maps the future system, its components and properties clearly. So we can create you an optimal offer.

Also available as a download at www.solara.eu



Projects with SOLARA



Power supply of a measuring station for speed control

PV-system size	3 kW
Products	Sonnenstromfabrik glass/glass modules, Studer, BAE batteries
Location	Drammetal, Germany



Power supply of a mobile chicken shed

PV-system size	990 W
Products	Excellent modules, Phocos, Hoppecke Batteries
Location	Melle, Germany



Back-up power supply

PV-system size	5.7 kW
Products	Centrosolar Excellent modules, SMA Sunny Backup, Hoppecke batteries
Location	German Embassy, Vientiane, Laos



Power supply to a hospital

PV-system size	9.1 kW
Products	Centrosolar Professional modules, SMA Sunny Island, Rolls batteries
Location	Irrawaddy Delta, Myanmar



LED road sign

PV-system size	380 W
Productse	Solara S-Series modules, Morningstar, Network connectivity
Location	Autobahn, Germany



Tsunami early warning system

PV-system size	500 W + 600 W
Products	Solara M-Series, S-Series modules
Location	Indian Ocean, Indonesia



Sonnenstromfabrik Excellent

SOLARA S-Series

Powerful solar modules

Quality from the Sonnenstromfabrik

The Sonnenstromfabrik is the most modern and qualitatively leading manufacturer of solar modules in Europe. The module factory has established itself as a quality leader over the past 30 years. The particular strength of the Sonnenstromfabrik are their, compared to conventional solar modules, much more durable glass/glass modules of the series „Excellent Glass/Glass".

The Features

- Anti-reflection glass ensures high yields
- Positive power classification
- 100 % PID-safe
- Ballast up to 18,000 Pa (for glass/glass modules)
- Large, waterproof junction box
- Salt-spray-resistant
- Ammonia-resistant
- Hail-resistant

Glass/glass modules

Type	Module power (W)	No. of cells	Dimensions (L x W x H in mm)	Weight (Kg)
Diamond	360 - 450	108/96	1740/1555 x 1145 x 35	23.0/22.0
Excellent	325 - 330	60	1700 x 1000 x 35	22.0
Solara S-Series Vision	110	42	1250 x 550 x 35	9.4
Solara S-Series Vision	190	68	1500 x 680 x 35	15.0

Glass/foil modules

Type	Module power (W)	No. of cells	Dimensions (L x W x H in mm)	Weight (Kg)
Sapphire	360 - 450	108/96	1740/1555 x 1145 x 35	19.0/20.0
Excellent	330 - 335	60	1700 x 1000 x 35	19.0
Solara S-Series	100	36	1500 x 350 x 35	7.9
Solara S-Series	120	45	1250 x 550 x 35	6.6
Solara S-Series	190	36	1500 x 680 x 35	10.5
Solara S-Serie HV deluxe	205	72	1500 x 680 x 35	10,6

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Quality
Made in
Germany



Individual solutions

A variety of applications such as e.g. parking ticket machines, measuring stations, emergency telephones, street lighting, telecommunications and much more, often need to be supplied with autonomous power. Either there is no electricity available or the connection to the power grid is too expensive or complicated. Depending on the product a perfectly suitable solar module for this application is required so that it can be easily integrated into the existing application without further modification.

This is the strength of Solara, because we can manufacture any solar module exactly to your specifications. Whether square, triangular or round, small or large, all module outputs from 1 Watt for cigarette vending machines to 500 Watts for telecommunication systems are possible here and that even in smaller quantities.

You give us the desired dimensions and power, we design the optimal module and make you an appropriate offer based on the requested quantities. After your approval, the solar module can be produced and delivered promptly.

What is possible?

- Any shape
- Power ranges from 1 Watt to 500 Watts
- Use of polycrystalline, monocrystalline and as well as back contact cells
- Module construction glass/foils, glass/glass, foil/metal or foil/plastic
- Semiflexible modules
- Covered cell connectors
- Transparent, white or black backsheet
- Frame colour silver or black
- Frameless as a laminate
- Junction box or direct cable outlet

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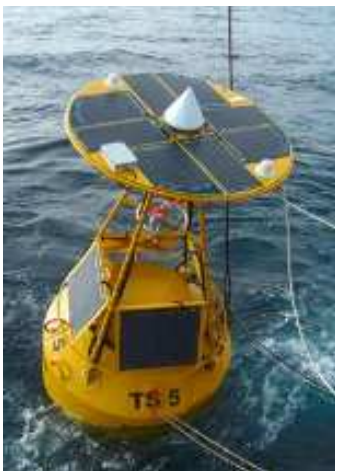




SOLARA Polefix Deluxe

SOLAR POLE MOUNT WITH OUTDOOR HOUSING

- Durable thanks to UV-stabilised outdoor housing and corrosion-free stainless steel brackets
- Solar panel angle adjustable from 30° to 80° inclination for maximum energy yield
- Suitable for harsh environments, reliable up to wind force 10 with reinforcement kit
- For pole diameters from 48 to 180 mm
- With 22 watts, 75 watts, 110 watts, 170 watts and 190 watts panels for 12 V and 24 V battery systems
- Simple one-person assembly and installation with just one tool
- Suitable for a wide range of applications thanks to international certifications

Accessories

- Five different outdoor enclosures, individually customisable, including PV connectors
- Mounting plate with battery holder
- Reinforcement kit for higher wind forces
- Solar panel adapter set for use with other panel types





Pole mount



Outdoor enclosure

SOLARA Polefix Deluxe



Mounting plate with battery holder



Reinforcement kit VSxxx



Solar panel adapter set

SOLARA Polefix Deluxe pole mount

Type	Polefix S 108	Polefix M 108	Polefix M 180
Suitable DCsolar modules, necessary drill holes already in place For modules, see page 67	E88M36, 22 W	E300M39, 75 W E480M72, 110 W E745M72, 170 W E835M72, 190 W	E300M39, 75 W E480M72, 110 W E745M72, 170 W E835M72, 190 W
Suitable outdoor enclosures	Box 1/2/3	Box 1/2/3/4/5	Box 1/2/3/4/5
Adjustable module angles		30° bis 80°	
Suitable pole diameters	48 mm to 108 mm	48 mm to 108 mm	75 mm to 180 mm
Weight	5 kg	9 kg	9.2 kg
Material		Corrosion-free V2A stainless steel	

SOLARA Polefix Deluxe outdoor enclosure

Type	Box 1	Box 2	Box 3	Box 4	Box 5
Material			Polycarbonate PC, UV stabilised		
Gasket			Polyurethane PUR		
PV connectors			yes		
Operating temperature			-40°C to +80°C		
Impact resistance rating according to EN 62262			K10/-35°C to +40°C		
Rated voltage			1,000 V (AC)/1,500 V (DC)		
Protection class according to EN 60259			IP66/IP68 (2 m/24 h)		
Dimensions (mm)	255 x 185 x 134	276 x 255 x 185	326 x 276 x 185	377 x 358 x 185	429 x 410 x 228
Weight	1.38 kg	2.07 kg	2.60 kg	2.85 kg	4.22 kg

Accessories for SOLARA Polefix Deluxe and outdoor enclosures

Type	Polefix S 108	Polefix M 108	Polefix M 180
Reinforcement kit up to wind force 10	VS108	VS108	VS180
Solar module adapter set		SKM1	
Mounting plate with battery holder	Box 1 for batteries up to 195 x 135 x 150 mm	Box 2/3 for batteries up to 270 x 165 x 220 mm	Box 4/5 for batteries up to 270 x 165 x 220 mm

PROVED SOLARA® QUALITY

Engineered in Germany

5 years product guarantee*



SOLARA Panelfix Deluxe

SOLAR POLE AND WALL MOUNT

- Flexible design allows mounting on a pole or wall
- Solar panel angle can be adapted to the location from 30° to 80° inclination for maximum energy yield
- Suitable for harsh environments, reliably withstands wind speeds of up to 10 with reinforcement plate
- Suitable for pole diameters of 48–180 mm
- Simple one-person assembly and installation

Accessories

- Mounting kit for pole mounting
- Reinforcement kit for higher wind forces
- Solar panel adapters when using other panel types





Pole and wall mount



Installed solar panel adapter SKM1

SOLARA Panelfix Deluxe



Mounting kit for pole mounting



Solar panel adapter set



Reinforcement kit VSxxx

SOLARA Panelfix Deluxe

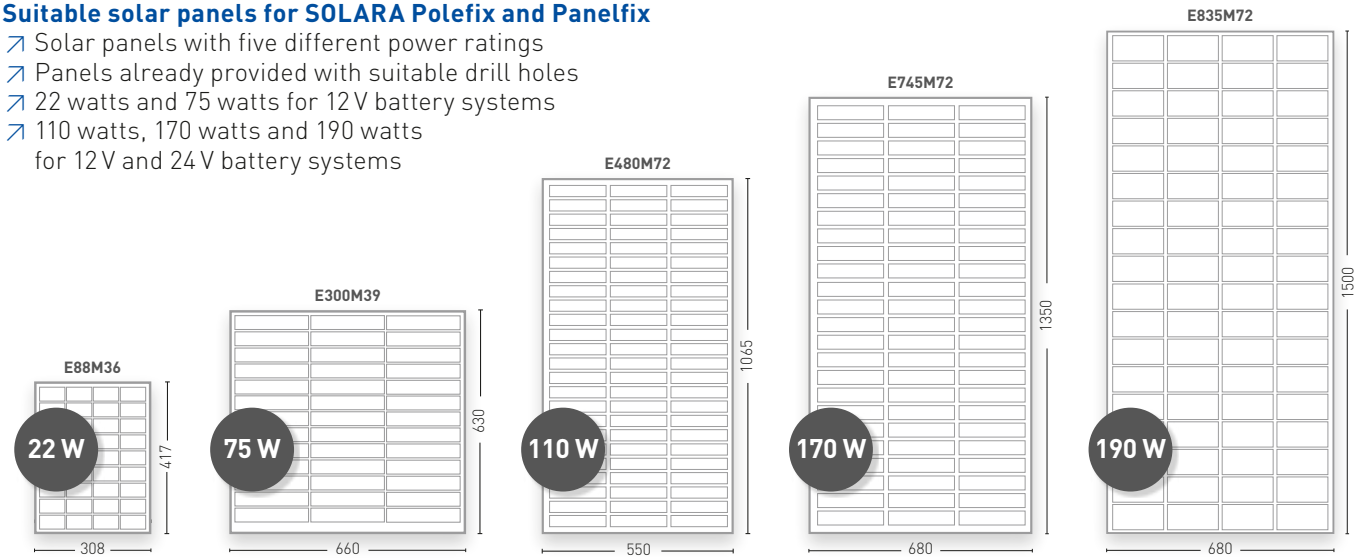
Type	Panelfix S 108	Panelfix M 108	Panelfix M 180
Suitable DCsolar modules, necessary drill holes already in place	E88M36, 22 W	E300M39, 75 W E480M72, 110 W E745M72, 170 W E835M72, 190 W	E300M39, 75 W E480M72, 110 W E745M72, 170 W E835M72, 190 W
Suitable pole diameters	48 mm to 108 mm	48 mm to 108 mm	75 mm to 180 mm
Weight	5 kg	9 kg	9.2 kg
Material	Corrosion-free V2A stainless steel		

SOLARA Panelfix Deluxe accessories

Typ	Panelfix S 108	Panelfix M 108	Panelfix M 180
Mounting kit for pole installation	BS108	BS108	BS180
Reinforcement kit up to wind force 10	VS108	VS108	VS180
Solar panel adapter set		SKM1	

Suitable solar panels for SOLARA Polefix and Panelfix

- Solar panels with five different power ratings
- Panels already provided with suitable drill holes
- 22 watts and 75 watts for 12 V battery systems
- 110 watts, 170 watts and 190 watts for 12 V and 24 V battery systems



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5 years product guarantee*



SunGuard



ProStar with Display



TriStar 45/60

Morningstar charge controllers

Charge controller for professional use

In case of high solar power and currents, battery voltages up to 48 V, needed communication and data transfer, the professional ProStar and TriStar controllers are being used. Basically, all MorningStar controllers are designed without fans or moving parts.

The features

- For all battery types, lithium-ready
- For large systems with up to 60 A solar current
- With temperature sensor and deep discharge protection
- PWM charging characteristic, Series design
- Automatic voltage detection
- Several network and communication options
- All fuses electronically
- Low self-consumption < 20 mA
- Top quality with 5 years guarantee

Type	Solat panel power (W)	Current (A)	Voltage (V)	max. Open-circuit voltage (V)	Meter
SunGuard	80	4,5	12	30	LED
ProStar 15	250/500	15	12/24	60	LED
ProStar 15M	250/500	15	12/24	60	LCD
ProStar 30	500/1000	30	12/24	60	LED
ProStar 30M	500/000	30	12/24	60	LCD
TriStar 45	750/1500/3200	45	12/24/48	60	LED
TriStar 60	1000/2000/4000	60	12/24/48	60	LED

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QUALITY

5 years product guarantee*

When it comes to performance.



GS-MPPT-100M



GS-MPPT-100M



ReadyBlocks

Morningstar GenStar MPPT charge controllers

GenStar MPPT is the industry's first fully integrated DC solar charging system. A completely new design that provides all the features, most frequently requested by installers, including key communication and control functions.

The features

- Complete network integration without adapters or additional devices
- WiFi and Bluetooth connectivity with a mobile device and an app for easy connection
- LiveView 2.0 web app interface on board
- Fanless design for improved efficiency andexceptional long-term reliability
- Oversized PV array input power
- Comprehensive electronic protection functions, such as a „fold-back" circuit for lithium, which protects against charging damage in cold weather
- Powerful load control - integrated 30 A load capability, unique for controllers in this power class

Type	Power (VA)	Charging current (A)	System voltage (V)	Max. solar voltage (Vdc)
GS-MPPT-60M-200V	1200/2400/4800	60 A	12/24/48	200
GS-MPPT-80M-200V	1600/3200/6400	80 A	12/24/48	200
GS-MPPT-100M-200V	2000/4000/8000	100 A	12/24/48	200

For further information do not hesitate contacting us.

Morningstar ReadyBlock System extension for GenStar

The ReadyBlock expansion system offers true integration of the controller technology thanks to the exclusive ReadyRail design. All information is immediately available as it is actually part of the hardware and software of the charge controller itself and not outside the system as with a typical stand-alone add-on device.

The Features

- ReadyShunt - battery measurement/monitoring, important key figures such as state of charge (SOC), energy inputs and outputs (ampere hours), current measurement for energy sources and loads and more
- ReadyBMS - complete closed-loop communication and control with lithium batteries
- ReadyRelay - signalling (dry contact), advanced load control

5 years product guarantee*

Versatile expandable.



EMC-1



MeterHub



TS-M-2



RD-1

Morningstar accessories

The various accessories from Morningstar provides professional extension of the solar system. Communication adapters enable data transfer, even over the Internet. Displays and hubs, visualize many devices in one place, a relay driver to control external devices and other accessories just a good and clean installation.

Accessories

Type	Function	Compatible to
RM-1	Remote LCD display for several system parameters, incl. 10 m connection wire	SunSaver MPPT, ProStar MPPT
TS-M-2	Build-in meter for system parameter	TriStar MPPT
TS-RM-2	Remote LCD display for system parameters, incl. 30 m connection wire	TriStar MPPT
RTS	Temperature sensor with 10 m connection wire	ProStar MPPT, TriStar MPPT, EcoBoost
EMC-1	Ethernet Meterbus converter	ProStar MPPT, TriStar MPPT,
HUB-1	Enables multiple controllers to share one display or relay driver	ProStar MPPT, TriStar MPPT,
MSC-1	Converter for RJ-11 to RS232 communication	SunSaver MPPT, ProStar MPPT
RD-1	Logic module for system controll functions	ProStar MPPT, TriStar MPPT
UMC-1	Converter for RJ-11 to USB 2.0 communication	SunSaver MPPT, ProStar MPPT
DIN-1	DIN-rail holder	SunSaver MPPT
WireBox	Enclosure accessory for ProStar MPPT	ProStar MPPT

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5 year product guarantee*

Price/ performance winner!



SureSine 1250


SureSine 2500


SureSine 1250


SureSine 700

Morningstar SureSine inverter

Inverters for professional applications

The new SureSine series of off-grid inverters comprises six power classes from 150-2,500 W with 120 or 230 V output and 12, 24 or 48 V DC input to cover a wide range of off-grid applications that require a powerful, industrial-grade, pure sine wave inverter.

The features

- Setup and monitoring via APP Bluetooth communication on board
- Multiple hardwired AC remote control options for selected models
- Industry leading NRTL certifications for safety, low noise and high performance for reliability and system compliance
- Industrial quality, with high-quality toroidal transfomers for improved sine wave stability
- Outstanding thermal performance with fanless design
- Communication options: RS485, USB, Ethernet, MS-CAN, Bluetooth

Type	Continous power (W)	Max. power 1min. (W)	System voltage (V)	AC voltage (V)
SureSine 150	150	225	12/24/48	120/220, 60 Hz / 230, 50 Hz
SureSine 300	300	450	12/24/48	120/220, 60 Hz / 230, 50 Hz
SureSine 700	700	1050	12/24/48	120/220, 60 Hz / 230, 50 Hz
SureSine 1000	1000	1500	12/24/48	120/220, 60 Hz / 230, 50 Hz
SureSine 1250	1250	1875	12/24/48	120/220, 60 Hz / 230, 50 Hz
SureSine 2500	2500	3750	12/24/48	120/220, 60 Hz / 230, 50 Hz

For further information do not hesitate contacting us.

PROVED SOLARA® QUALITY

5 year product guarantee*


Quatro


MultiPlus


BatFuse x.2


BatFuse x.1


Cable 16/35/70 mm²

Price/ performance winner!

Victron

Best price and power performance

With over 43 years of experience, Victron Energy enjoys an unrivalled reputation for technical innovation, reliability and quality. Victron is one of the world leaders in the field of independent power supply. The wide product range includes i.a. sine inverter and inverter/charger combinations, battery chargers, DC/DC converters, transfer switches, batteries, solar charge controllers and many more innovative solutions.

Type	Power (VA)	Charging current (A)	System voltage (V)	Specialty
Quattro	3000 - 15000	70 - 200	12/24/48	–
MultiPlus Inverter/Charger	800 - 5000	16 - 120	12/24/48	–
MultiPlus Inverter/Charger	500 - 1200	6 - 50	12/24/48	–
Phoenix Inverter	250 - 800	–	12/24/48	Inverter only

Several accessories available such as control panels, battery monitors, remote monitoring and much more.

For more information and details, please contact us.

Accessories

These accessories are needed in almost every system. High quality fuses, rugged cables - all professional components for a clean and safe installation.

Type	Function
MC4 PV Stick	MC4 connectors, DIY, tool-free, set with plus and minus
Cable 1x4	Installation cable for outside use, Typ H1Z2Z2-K, size 1x 4 mm², by meter
Cable 1x6	Installation cable for outside use, Typ H1Z2Z2-K, size 1x 6 mm², by meter
Cable 16 mm²	Connection cable with cable lug, length 4 m
Cable 35mm²	Connection cable with cable lug, length2 m or 4 m
Cable 70 mm²	Connection cable with cable lug, length 3 m or 6 m
Batfuse 1.1	NH00-Fuse up to 2x 80 - 160 A, for 1 Inverter, 3 DC Inputs, IP65
Batfuse 1.2	NH00-Fuse up to 6x 80 - 160 A, for 3 Inverter, 6 DC Inputs, IP65
Batfuse 2.1	NH01-Fuse up to 2x 125 - 250 A, for 1 Inverter, 3 DC Inputs, IP65
Batfuse 2.2	NH01-Fuse up to 6x 125 - 250 A, for 3 Inverter, 6 DC Inputs, IP65

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OPzV


OPzS


Battery rack


Aqua Gen

Cycle-proof and durable.

Hoppecke gel and liquid batteries

OPzS/OPzV batteries

Since 1927 the company develops and produces "Made in Germany". Longevity due to high number of cycles (up to 3,000 cycles at DoD 50%) are one of the characteristics of these stationary batteries.

The features

- Maximum cycle life and longevity
- Standards IEC 61427, DIN 40742
- Up to 3,000 cycles at DoD 50 %
- M8 thread for cable connections
- Highest resistance to mechanical stresses by reinforced, impact-resistant polypropylene housing

sun|power VR L (OPzV)

Description	Dimensions	Capacity c100
12 V bloc, W x H 205 x 383 mm	Lenght: 272, 380 mm	70, 130, 200 Ah
6 V bloc, W x H 205 x 383mm	Lenght: 272, 380 mm	270, 330, 400 Ah
2 V cell, width 208 mm	L x H: 105 x 420, 126 x 420, 147 x 420, 126 x 535, 147 x 535, 168 x 535, 147 x 710 mm	287, 359, 430, 478, 574, 670, 847 Ah
2 V cell, width 193 mm	L x H: 215 x 710 mm	990, 1130 Ah
2 V cell, width 235 mm	L x H: 215 x 710 mm	1271, 1412 Ah
2 V cell, width 277 mm	L x H: 215 x 710, 215 x 710, 215 x 855 mm	1553, 1695, 1955 Ah
2 V cell, width 400 mm	L x H: 215 x 815 mm	2281, 2607 Ah
2 V cell, width 490 mm	L x H: 215 x 815 mm	2933, 3258 Ah
2 V cell, width 580 mm	L x H: 215 x 815 mm	3584, 3910 Ah
1-step or 2-step racks available on request		

sun|power V L (OPzS)

Description	Dimensions	Capacity c100
12 V bloc, W x H 205 x 383 mm	Lenght: 272, 380 mm	70, 130, 200 Ah
6 V bloc, W x H 205 x 383mm	Lenght: 272, 380 mm	270, 330, 400 Ah
2 V cell, width 208 mm	L x H: 105 x 420, 126 x 420, 147 x 420, 126 x 535, 147 x 535, 168 x 535, 147 x 710 mm	280, 350, 420, 520, 620, 730, 910 Ah
2 V cell, width 193 mm	L x H: 215 x 710 mm	1070, 1220 Ah
2 V cell, width 235 mm	L x H: 215 x 710 mm	1370, 1520 Ah
2 V cell, width 277 mm	L x H: 215 x 710, 215 x 710, 215 x 855 mm	1670, 1820, 2170 Ah
2 V cell, width 400 mm	L x H: 215 x 815 mm	2540, 2900 Ah
2 V cell, width 490 mm	L x H: 215 x 815 mm	3250, 3610 Ah
2 V cell, width 580 mm	L x H: 215 x 815 mm	3980, 4340, 4700 Ah
1-step or 2-step racks, re-combination tool, acid trays available on request		



VR M



VR X-FT



VR X

Efficiency and durability.

Hoppecke AGM batteries

Compact and powerful

Sealed lead-acid battery, almost maintenance-free due to Absorbent-Glass-Mat technology.
The ideal battery for small and medium-sized cyclic applications.

The features

- Maintenance-free due to AGM technology
- 2,500 cycles at 50 % DoD
- Ideal for street lighting or small technical installations

sun|power VR M

Description	Dimensions	Capacity c100
12 V bloc, W x H 177 x 190 mm	Lenght: 232, 267, 303 mm	56, 69, 76, 88 Ah
12 V bloc, W x H 177 x 230 mm	Lenght: 344, 498 mm	101, 146 Ah
12 V bloc, W x H 170 x 275 mm	Lenght: 344, 242, 308 mm	125 Ah
6 V bloc, W x H 170 x 275 mm	Lenght: 242, 308 mm	186, 247 Ah
2 V bloc, L x H 183 x 310 mm	Width: 155, 226 mm	430, 620 Ah
2 V bloc, L x H 182 x 310 mm	Width: 304, 391 mm	890, 1120 Ah

grid|power VR X

Type	Weight (Kg)	Capacity c100
VR X 12-57, L x B x H 207 x 177 x 230	19.0	57 Ah
VR X 12-63, L x B x H 229 x 177 x 230	23.3	63 Ah
VR X 12-68, L x B x H 229 x 177 x 230	25.7	68 Ah
VR X 12-88, L x B x H 344 x 177 x 230	30.8	88 Ah
VR X 12-102, L x B x H 344 x 177 x 230	33.6	102 Ah
VR X 12-114, L x B x H 344 x 177 x 230	38.7	114 Ah
VR X 12-142, L x B x H 498 x 177 x 230	46.2	142 Ah
VR X 12-153, L x B x H 498 x 177 x 230	48.2	153 Ah
VR X 12-166, L x B x H 498 x 177 x 230	53.3	166 Ah

grid|power VR X-FT

Type	Weight (Kg)	Capacity c100
VR X-FT 12-90, L x B x H 383 x 105 x 265	32.5	90 Ah
VR X-FT 12-115, L x B x H 541 x 125 x 217	36.4	115 Ah
VR X-FT 12-170, L x B x H 541 x 125 x 302	52.3	170 Ah
VR X-FT 12-180, L x B x H 541 x 125 x 302	59.0	180 Ah

MY PLANNING

SOLARA®
module. komponenten. systeme

Your specialized dealer

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