

► TOWARDS THE SUN



2010

**SOLAR ENERGY FOR MOBILE PEOPLE**

**cleversolar**

A product of the Sinosol Group

## YOUR DECLARATION OF INDEPENDENCE OF EVERY SOCKET

### CLEVERSOLAR GIVES YOU FREEDOM

A camping adventure in the Rockies, a yacht trip across the Baltic or electricity for the rural population in Africa. Energy is needed everywhere, even where a power grid is not available. No one likes living without a basic service of today's civilization; electricity is one of them. With quality products from cleversolar you can make the most of your leisure time in even the remotest locations. You simply wiretap the energy source that is always available: the power of the sun. Our solar installations are highly efficient, simple to install and guarantee a reliable power supply at your favourite spot – if it is your weekend home in the mountains, on board of a yacht or in the bunk of a mobile home beyond the Polar Circle.

**Welcome to cleversolar, welcome to the world of solar technology!**

### WHERE WE COME FROM QUALITY IS GUARANTEED

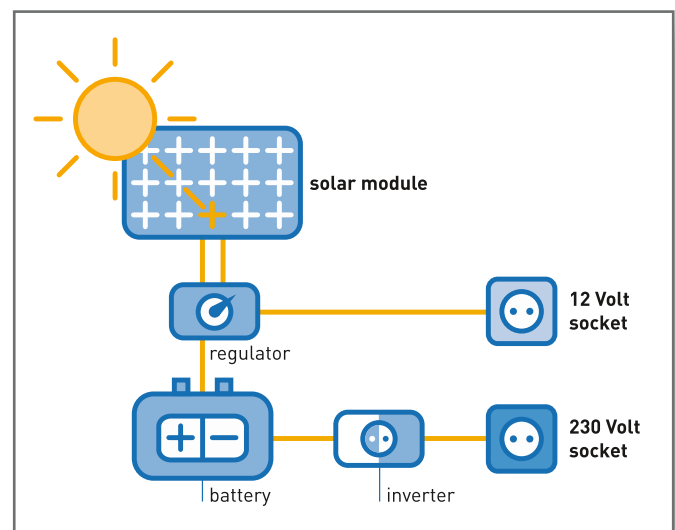
Approximately 20 years experience in solar technology have transformed our pioneering staff into qualified experts with in-depth knowledge of the operation, quality and performance of every technical component of solar installations. Working in close collaboration with reliable partners throughout Germany, cleversolar only offers proven products, premium quality components and exclusive solar modules that have already passed the most stringent test: inclusion in our product range.

### HOW A CLEVERSOLAR SOLAR INSTALLATION WORKS

A stand-alone solar installation from cleversolar is the innovative way of producing power for the mobile generation. Noiseless, environmentally friendly and always available.

What's more, installation is simple: Depending on required output, one or more modules are fixed on a roof or deck. A connection cable runs to charge regulator inside and on to the battery. Solar modules transform incident sunlight into electricity. The direct current generated is stored in the battery and supplied to the electrical consumer (TV set, water pump, etc.).

The purpose of the charge regulator is easily explained: It protects the battery from overcharging by interrupting the current entry from the solar modules. Some regulators also have a function that permits the electrical consumer to be disconnected from the power supply as soon as the battery charge falls below a critical battery voltage; this can also be partly pre-set.



### ALSO RELIABLE WITH ALTERNATING CURRENT

Even 230-volt AC appliances such as laptops, printers or mobile phone chargers can be used at any time with cleversolar solar installations. Stringently tested inverters especially chosen by us guarantee the supply of power.

#### The most common electrical consumers:

Appliance	Power Rating	Operating Time Per Day	Consumption Per Day
Radio	15 Watt	3 Hours	45 Wh/d
Colour TV	35 Watt	3 Hours	105 Wh/d
12 Volt Satellite			
Receiver	15 Watt	3 Hours	45 Wh/d
Lamps	15 Watt	5 Hours	75 Wh/d
Water pump	20 Watt	0,5 Hours	10 Wh/d
Compressor			
Fridge*	40 Watt	8 Hours	320 Wh/d

\*without cold storage at 32°C ambient temperature and approx. 30% operating time

# MODULES FOR A BRIGHTER LIFE

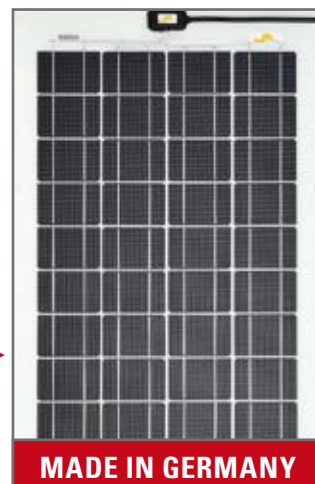
## VARIABLE SOLUTIONS FOR ALL APPLICATIONS

All our solar modules have a long lifespan and come with multi-year guarantees ranging from 3 to 25 years. Whether equipped with aluminium frames or toughened front glass, slimline, flexible or walk-on, screw-on or stick-on: cleversolar solar modules more than live up to their promises.

### MARINE MODULE

Robust, flexible and with Made in Germany quality: The acid- and salt water-resistant stainless steel back plate provides exceptional stability and can still be adjusted to slightly curved surfaces. The walk-on plastic front prevents glass breakage and a special Teflon coating means it is also slip-proof in wet conditions. Especially well suited for gluing or fixed installation.

Module	Cells	Output	Yield Per Day	Voltage	Dimensions In mm	Weight
SW 3061	40	12 Wp	48 Wh	12 V	467 x 249 x 2(5)	1.5 kg
SW 3062	40	18 Wp	72 Wh	12 V	642 x 249 x 2(5)	3.0 kg
SW 3063	40	24 Wp	96 Wh	12 V	467 x 459 x 2(5)	3.2 kg
SW 3064	40	36 Wp	144 Wh	12 V	638 x 459 x 2(5)	4.5 kg
SW 3065	40	48 Wp	192 Wh	12 V	838 x 499 x 2(5)	5.5 kg
SW 3066	40	70 Wp	280 Wh	12 V	891 x 638 x 2(5)	7.0 kg
SW 3265	80	48 Wp	192 Wh	24 V	838 x 499 x 2(5)	5.5 kg
SW 3266	80	70 Wp	280 Wh	24 V	891 x 638 x 2(5)	7.0 kg
SW 5065*	39	48 Wp	192 Wh	12 V	785 x 460 x 2(5)	5.0 kg
SW 5066*	39	69 Wp	276 Wh	12 V	890 x 600 x 2(5)	7.0 kg



No performance loss even at high temperatures!

### ROLLABLE AND FLEXIBLE SOLAR MODULES

Unpack, charge, pack away – it couldn't be more flexible! These solar modules are ideal for all activities where mobility is required. Light, flexible and rollable, they are adaptable to any surface and easy to store.

Module	Output	Special Application	Voltage	Dimensions In mm	Weight
QSR-7	6.75 Wp	Rollable	12 V	350 x 900 x 1.2	0.7 kg
QSR-14	13.5 Wp	Rollable	12 V	350 x 1,500 x 1.2	1.1 kg
QSS-7	6.75 Wp	Flexible	12 V	350 x 695 x 1.2	0.5 kg
QSS-14	13.5 Wp	Flexible	12 V	350 x 1,310 x 1.2	0.9 kg
QSS-27	27.0 Wp	Flexible	12 V	642 x 1,310 x 1.2	1.5 kg



\* Cable junction on the right side

## POWERED BY SUNPOWER



### THE SPR-90 WITH THE WORLD'S MOST POWERFUL SUNPOWER CELL

The power module for all battery charging applications: The SPR-90 with SunPower cell delivers 100 watts on the surface of a conventional 50-watt module – and is reliable both in high temperatures and in low-light conditions.

Module	Output	Yield Per Day	Voltage	Dimensions In mm	Weight
SPR-30	30 Wp	150 Wh	12 V	510 x 415 x 35	3.9 kg
SPR-60	60 Wp	240 Wh	12 V	734 x 535 x 35	5.2 kg
SPR-85	85 Wp	352 Wh	12 V	1,050 x 555 x 35	8.0 kg
◀ SPR-90	100 Wp	420 Wh	12 V	1,037 x 527 x 46	7.4 kg
SPR-130	135 Wp	572 Wh	12 V	1,082 x 796 x 35	12.7 kg

► **COMPLETE SET 01**

- 1 x SPR-90 WITH SUNPOWER CELL
- 1 x SS 90 spoiler set
- 1 x Adhesive set
- 1 x Apple 15 regulator with battery cable
- 1 x Adapter set „Clever-Clip“
- 1 x Roof grommet

► **COMPLETE SET 02**

- 1 x SPR-90 WITH SUNPOWER CELL
- 1 x SS 90 spoiler set
- 1 x Adhesive set
- 1 x FOX 320 regulator for two battery systems
- 1 x Adapter set „Clever-Clip“
- 1 x Roof grommet

► **COMPLETE SET 03**

- 2 x SPR-90 WITH SUNPOWER CELL
- 2 x SS 90 spoiler set
- 1 x Adhesive set
- 1 x Apple 15 regulator with battery cable
- 1 x Adapter set „Clever-Clip“
- 1 x Roof grommet

► **PREMIUM KIT**

- 1 x SPR-90 WITH SUNPOWER CELL
- 1 x SS 90 spoiler set
- 1 x Adhesive set
- 1 x PPT2 regulator with battery cable
- 1 x Adapter set „Clever-Clip“
- 1 x Roof grommet

UP TO 15%  
MORE OUTPUT  
DUE TO PPT  
CONTROL

#### Complete Sets 01 and 02 for the following appliances:

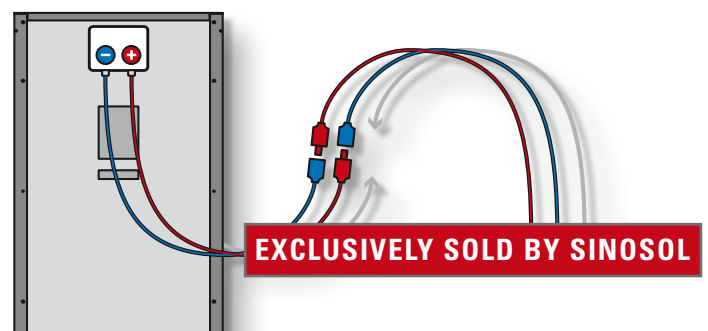
- Lights, water pumps, radios, TV sets, satellite devices, gas heating
- April to October (recommended battery capacity 100 Ah)

#### Complete Set 03 for the following appliances:

- Lights, water pumps, radios, TV sets, satellite devices, gas heating, compressor fridge
- Year-round (recommended battery capacity 180 Ah)

### OUR CLEVER-CLIP SYSTEM

Enables effortless connection due to the prefabricated cable attached to the module as well as the separate adapter set.



# SAFETY IS OUR PRIORITY

## HOLDERS AND ACCESSORIES

Solar installations for leisure use pose particular challenges. cleversolar holders and accessories provide safety against wind, rain, UV light, extreme heat or cold, branches and vibrations. Whatever the situation, we have the solution.

### SPOILER-, MOUNTING SETS AND ANGLE SUPPORTS

The UV-resistant adhesive set ensures the skin remains intact and that leakages are avoided. The aerodynamic profile means there is no wind noise – TÜV certified!

Holder Type	Up To Max. Module Width	Material	Installation	Number Per Set
Spoiler HSP45	45 cm	Polyurethan	Glue/Screw	2
Spoiler HSP53	53 cm	Polyurethan	Glue/Screw	2
Spoiler HSP65	65 cm	Polyurethan	Glue/Screw	2
Mounting Set HSPE	For All Framed Modules	Polyurethan	Glue/Screw	4
Module Connector HSPV	For All Framed Modules	Polyurethan	Glue/Screw	2



### ALUMINIUM ANGLES

The universal solution for every type of solar module. The aluminium angle is simple to install and adhesion seals the roof membrane. No wind noise, completely UV-resistant and space-saving.

Holder Type	Up To Max. Module Width	Material	Installation	Number Per Set
Aluminium Angles MHA 1	For Framed Modules Up To 1,050 mm	Aluminium	Glue/Screw	4
Aluminium Angles MHA 2	For Framed Modules Starting From 1,050 mm	Aluminium	Glue/Screw	6



### ROOF GROMMET

If a hole in a roof or deck cannot be avoided, then this roof inlet with special adhesive ensures a tight seal and an aerodynamic profile. Can be supplied for one or two cables.



### ADHESIVE SETS

Secure, dependable, long-lasting – the ultimate adhesive set from cleversolar. Available for one or two modules. It holds and holds and holds...



## SAFETY IS OUR PRIORITY

### CHARGE REGULATORS AND DIGITAL DISPLAYS

For optimum overcharge and deep discharge protection choose cleversolar's charge regulators. Enjoy your free time and allow our appliances to take control. Our fully-automatic regulators are connected parallel to the generator, power unit and mains supply, with no alterations to existing connections required.

#### APPLE

This regulator thinks for itself: its self-learning electronics adjust the battery charge to the constantly changing dynamic condition of the battery. Its varied display and regulating features mean the Apple is unrivalled in terms of price and performance.



Charge Regulator	Output	Output	Voltage	Display	Deep Discharge Protection	Battery-systems
◀ Apple 5	5 A	80 W	12 V	12 x LED	Yes	1
Apple 10	10 A	160 W	12 V	12 x LED	Yes	1
Apple 15	15 A	240 W	12 V	12 x LED	Yes	1
Apple 20	20 A	320 W	12 V	12 x LED	Yes	1



#### MPPT CHARGE REGULATORS

High module voltages or permanently low ambient temperatures? This regulator delivers outstanding performance – even for two separate battery circuits.

Charge Regulator	Output	Output	Voltage	Display	Deep Discharge Protection	Battery-systems
◀ PPT 1	14 A	200 W	12 V	LED	Yes	1
PPT 2	19 A	240 W	12 V	LED	Yes	2
◀ PPT 3 EASY	40 A	660 W	12/24 V	LED	Yes	1

#### FOX DIGITAL DISPLAYS

Digital displays provide answers: How much charging current are the solar modules delivering? How much electricity is required? What is the state of charge of the battery? FOX digital displays are suitable for all 12 V and 24 V systems and a current range of up to 20A. FOX D1/E for flush mounting.

**NEW:** FOX MD1, for flush and surface mounting and for matching to the FOX-220 and 320 regulators.



Type	Voltage Ranges	Voltage Drop	Current Range	Dimensions W x H In mm	Weight
◀ FOX D1	8-24 V (Max. 48 V)	Max. 0.6 V	± 20 A	98 x 56	80 g
FOX D1/E*	8-24 V (Max. 48 V)	Max. 0.6 V	± 20 A	115 x 79	80 g
◀ FOX MD1	8-24 V (Max. 48 V)	Max. 0.3 V	± 20 A	150 x 58.5	150 g

\* Flush mounting version



## SPECIAL APPLICATION REGULATORS

**Charge regulators for every purpose:** lighting, precision timer circuit, waterproof IP 65 housing, high solar performance, data storage and transmission ... we have the right regulator for your application!

Charge Regulator	Output	Output	Voltage	Display	Deep Discharge Protection	Battery-systems
LR 12-18	18 A	300 W	12 V	LED	Yes	1
PRS 2020	20 A	320 W	12/24 V	LED	Yes	1
PRS 3030	30 A	480 W	12/24 V	LED	Yes	1
PR 2020	20 A	320 W	12/24 V	LCD	Yes	1
PR 2020 IP	20 A	320 W	12/24 V	LCD	Yes	1
PR 3030	30 A	480 W	12/24 V	LCD	Yes	1
SLR 308	8 A	130 W	12/24 V	LCD	Yes	1
MX 60PPT	60 A	960 W	12 V – 60/140 V**	LCD	Yes	1
MX 80 FlexMax	80 A	1320 W	12 V – 60 V	LCD	Yes	1

- PR 2020 & 3030
  - ▶ Graphic display
  - ▶ Prepayment function (optional)
- PR 2020 IP
  - ▶ Waterproof IP 65 housing
  - ▶ Internal temperature compensation
- MX60PPT
  - ▶ Transforms high module voltage into lower battery voltage
  - ▶ Data acquisition and transmission optional
- PRS
  - ▶ Night light function
- LR12-18
  - ▶ Connectability to an EBL Block in a caravan



## FOX

The regulator that can be used with almost all solar modules. Its protected electronics are sea water-resistant, exceptionally reliable and have an especially long lifespan. Also available for two separate battery circuits. **NEW:** The FOX-220 and 320 with a host of exciting new functions!

Charge Regulator	Output	Output	Voltage	Display	Deep Discharge Protection	Battery-systems
FOX-100	16 A	260 W	12/24 V	LED	No	1
FOX-150***	16 A	260 W	12/24 V	LCD	No	1
FOX-250***	16 A	260 W	12/24 V	LCD	Yes	1
FOX-350***	16 A	260 W	12/24 V	LCD	Yes	2
FOX-220	20 A	320 W	12/24 V	LED	Yes	1
FOX-320	20 A	320 W	12/24 V	LED	Yes	2



\*\* Battery voltage: 12 V – 60 V, module voltage: 12 V – 140 V | \*\*\* Also available for flush mounting

## WAECO – PREMIUM QUALITY FROM THE MARKET LEADER

### WAECO INVERTERS

Normal 230-V applications can now also be connected – with our inverters 12 V battery voltage is converted into 230 V AC. Enjoy home comforts effortlessly, wherever you are. Also available as a 24 V inverter.



Inverter	Voltage	Continuous Rating (max.)	Dimensions In mm	Weight
PP 152/PP 154	12 V Or 24 V	150 W (350 W)	129 x 71 x 177	0.84 kg
PP 402/PP 404	12 V Or 24 V	350 W (700 W)	129 x 71 x 192	0.99 kg
PP 602/PP 604	12 V Or 24 V	550 W (1100 W)	129 x 71 x 237	1.40 kg
◀ PP 1002*/PP 1004*	12 V Or 24 V	1000 W (2000 W)	176 x 95 x 338	3.50 kg
PP 2002*/PP 2004*	12 V Or 24 V	2000 W (4000 W)	176 x 95 x 443	5.00 kg

### WAECO SINUS INVERTERS

Play it safe! Latest-generation Sinus inverters can be used to operate all appliances. Electricity from the socket – for everything everywhere.



Inverter	Voltage	Continuous Rating (Max.)	Dimensions In mm	Weight
MSP 162/MSP 164	12 V Or 24 V	150 W (300 W)	157 x 64 x 243	2.0 kg
MSP 352/MSP 354	12 V Or 24 V	350 W (700 W)	157 x 64 x 243	2.2 kg
◀ MSP 702**/MSP 704**	12 V Or 24 V	700 W (1400 W)	190 x 90 x 308	5.5 kg
MSP 1012**/MSP 1014**	12 V Or 24 V	1000 W (2000 W)	225 x 117 x 435	7.6 kg
MSP 1512**/MSP 1514**	12 V Or 24 V	1500 W (3000 W)	225 x 117 x 465	8.4 kg
MSP 2012**/MSP 2014**	12 V Or 24 V	2000 W (4000 W)	349 x 116 x 516	15.5 kg
MSP 2512**/MSP 2514**	12 V Or 24 V	2500 W (5000 W)	349 x 166 x 546	16.9 kg

### WAECO CHARGERS

Waeco chargers ensure fully automatic charging of on-board or starter batteries from a 230 V network. Optimum charging is achieved regardless of your charging and temperature characteristic.



Charging Device	Voltage	Max. Charging Current	Battery-systems	Dimensions In mm	Weight
WAECO IU 812	12 V	8 A	1	120 x 70 x 200	0.9 kg
WAECO IU 1012	12 V	10 A	1	85 x 50 x 210	1.0 kg
WAECO IU 1512	12 V	15 A	1 + 1	200 x 60 x 260	2.4 kg
WAECO IU 154	24 V	15 A	2 + 1	240 x 80 x 309	3.5 kg
WAECO IU 252	12 V	25 A	2 + 1	240 x 80 x 310	3.5 kg
WAECO IU 254	24 V	15 A	2 + 1	240 x 80 x 311	3.5 kg
◀ WAECO IU 452	12 V	45 A	3	230 x 108 x 325	4.2 kg
<b>NEW:</b> WAECO IU 404	24 V	40 A	3	208 x 96 x 453	6.5 kg
<b>NEW:</b> WAECO IU 802	12 V	80 A	3	208 x 96 x 453	6.5 kg



## WAECO POCKET POWER SMART

Small, light and easy to handle – the inverter for mobile communication. Ideal for operating laptops and charging mobile phones (with USB-charger connection).

Inverter	Voltage	Continous Rating (Max.)	Dimensions In mm	Weight
SI 102	12 V or 24 V	110 W (200 W)	42 x 70 x 130	0.34 kg
<b>NEW:</b> TSI 102	12 V Sinus	120 W (200 W)	92 x 64 x 180	0.65 kg



## WAECO REFRIGERATION

Summer is on its way. Whether you want to refrigerate or deep freeze, make sure you don't miss out on comfort. With Waeco refrigeration appliances you can't go wrong.

**SUITABLE FOR SOLAR OPERATION**

### WAECO REFRIGERATORS

(Optional electrical adapter available)

Fridge	Cross Content***	Input Voltage	Average Power Input	Dimensions In mm	Weight
MDC-50	43 l (39 l + 4 l)***	12 V/24 V	45 W	425 x 620 x 445	15.0 kg
MDC-65	64 l (54 l + 10 l)***	12 V/24 V	45 W	485 x 673 x 475	20.0 kg
MDC-90	90 l (80 l + 10 l)***	12 V/24 V	45 W	485 x 830 x 475	28.0 kg
MDC-110	110 l (97 l + 13 l)***	12 V/24 V	45 W	525 x 850.5 x 547	30.5 kg



### WAECO COOL BOX

(for temperatures from +10°C to -18°C)

Cool Box	Cross Content***	Input Voltage	Average Power Input	Dimensions In mm	Weight
CDF-11	10,5 l	12 V/24 V DC	30 W	235 x 358 x 540	8.8 kg
CDF-18	18 l	12 V/24 V DC	35 W	300 x 414 x 465	11.5 kg
CDF-25	23 l	12 V/24 V DC	35 W	260 x 425 x 550	12.0 kg
<b>NEW:</b> CF-32 UP****	31 l	12 V/24 V DC & 110 V-240 V AC	45 W	360 x 445 x 580	24.0 kg
CF-40	37 l	12 V/24 V DC & 110 V-240 V AC	45 W	360 x 445 x 580	16.0 kg
CF-50	49 l	12 V/24 V DC & 110 V-240 V AC	45 W	360 x 480 x 630	18.0 kg
CF-80	80 l	12 V/24 V DC & 110 V-240 V AC	65 W	500 x 455 x 790	31.0 kg
CF-110	106 l	12 V/24 V DC & 110 V-240 V AC	65 W	500 x 555 x 790	33.0 kg



\* Integrated grid priority circuit | remote control optionally available

\*\* Integrated grid priority circuit | remote control optionally available | RS 232 connection for computer

\*\*\* Net capacity + deep freeze compartment

\*\*\*\* Especially suited for solar power, with an integrated battery for service up to 18 hours without external electrical power supply

## COMPLETELY RELIABLE CHARGING

### BATTERIES AND MORE

Here operational safety combined with a long lifespan and multifunctionality around your solar installation.

#### LEAD ACID BATTERIES SP

Affordable, robust and with a long lifespan, this is the ideal multi-purpose battery around the mobile home, boat or weekend home.



Battery	Type	Capacity	Voltage	Dimensions In mm	Weight
◀ SP 90	Lead Acid	90 Ah (100 h)	12 V	278 x 175 x 190	17 kg
SP 110	Lead Acid	110 Ah (100 h)	12 V	353 x 175 x 190	18 kg
SP 120	Lead Acid	120 Ah (100 h)	12 V	305 x 175 x 220	26 kg
SP 140	Lead Acid	140 Ah (100 h)	12 V	513 x 189 x 223	37 kg
SP 200	Lead Acid	200 Ah (100 h)	12 V	513 x 223 x 223	48 kg
SP 250	Lead Acid	250 Ah (100 h)	12 V	518 x 276 x 242	61 kg

#### AGM SUN BATTERY

The all-rounder: this battery is completely maintenance free and has a long lifespan. Its electrolytes are bound in a fibreglass fleece, ensuring the battery is leak-proof. Equipped with new lead-calcium alloy plates.



Battery	Type	Capacity	Voltage	Dimensions In mm	Weight
SUN SB12-80	AGM	75 Ah (10 h)	12 V	348 x 167 x 178	25 kg
SUN SB12-100i	AGM	111 Ah (20 h)	12 V	330 x 173 x 220	32 kg
SUN SB12-120i	AGM	129 Ah (20 h)	12 V	410 x 177 x 225	38 kg
◀ SUN SB12-150	AGM	166 Ah (20 h)	12 V	485 x 170 x 238	52 kg
SUN SB12-200	AGM	226 Ah (20 h)	12 V	522 x 240 x 224	64 kg

#### GEL BATTERY AST

They prove themselves through their longevity and extremely low attrition, are completely gas- and airtight, have a high cycle stability, and a solid lifespan of 12 years when properly operated. Clean and environmentally friendly.



Battery	Type	Capacity	Voltage	Dimensions In mm	Weight
◀ AST-80S	Gel (Lead Gel)	80 Ah	12 V	278 x 175 x 190	27 kg
AST-90S	Gel (Lead Gel)	90 Ah	12 V	353 x 175 x 190	32 kg
AST-120S	Gel (Lead Gel)	120 Ah	12 V	513 x 189 x 223	41 kg
AST-160S	Gel (Lead Gel)	160 Ah	12 V	513 x 223 x 223	50 kg
AST-210S	Gel (Lead Gel)	210 Ah	12 V	518 x 291 x 242	70 kg



## SOLAR STREET LAMPS

cleversolar supplies solar lamps with innovative technology for professional use. Many sites are located some distance from the electricity grid and consequently remain unlit; in darkness this can present significant dangers for passers-by. Our solar lamps provide a reliable source of light and cost little to install. Our solar street lamps are cost-effective on sites at least 50 metres from the nearest power supply. **New: with LED-technology.**

Lamp Typ	Light Source	Energy Consumption	Luminosity In Lumen	Bulb Equivalent
Prisma	1 + 1	11 W + 5 W	900 + 250	75 W + 35 W ▶▶
Stratos	1 + 1	11 W + 3 W LED	1800 + 150	75 W + 35 W ▶▶
Kubus	1 + 1	11 W + 3 W LED	1800 + 150	75 W + 35 W ▶▶



## SUPERWIND WIND GENERATOR

No grid connection? No problem: The Superwind 350 is a small generator that offers outstanding performance even in extreme conditions - with its automatically adjusting rotor blades the Superwind can even generate energy from powerful storms. Also combines easily with photovoltaic installations. Multi-faceted components enable the WG 350 to be the perfect generator of electricity from wind.

Power Rating	Switch-On Speed	Performance Control	Diameter	Weight
350 W	3.5 m/s (7 kn)	Pitch-control	1,220 mm	11.5 kg ▶▶



**MADE IN GERMANY**

**+ Charge controller SCR Marine, 12/24 V, with load resistance**

## ULITIUM LIGHTKIT 1

**Includes cables, modules, Ulitium 200 and Hub4.** The modular configuration allows maximum flexibility. The system is suited for summer homes and garages as well as motor homes and solar home systems. The possibilities to extend and combine are practically infinite. There are different module sizes between 3 to 21 Watts. The electrical system and a lithium-ionic battery are already integrated into the lamps. One can connect the solar module directly to the user via the distribution box. A charge controller is not needed. Thanks to the modern LED technology the lamps are extremely economical and effective, reaching an efficiency rate of approximately 23%. An LCD-TV that one can integrate is already planned for the future.

Product	Description	Dimensions In mm	Weight
1 Ulitium 200 Solar Lightkit White	1 x Ulitium 200 White, 1 x 3W Module	20 x 13 x 30	1.55 kg
2 Ulitium 200 Solar Lightkit White	2 x Ulitium 200 White, 1 x 3W Module	30 x 13 x 30	2.5 kg ▶▶
3 Ulitium 200 Solar Lightkit White	3 x Ulitium 200 White, 1 x 3W Module	40 x 13 x 30	3.6 kg
4 Ulitium 200 Solar Lightkit White	4 x Ulitium 200 White, 1 x 3W Module	50 x 13 x 30	4.7 kg



► TOWARDS THE SUN



Photo: Thomas Beck



Your trader

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