



## Balkonkraftwerk 600W

bestehend aus Inverter, Montagematerial, 2 x Solarpanel je 300W

Ein Balkonkraftwerk ist eine Mini-Solaranlage, die mit einem Stecker an das Stromnetz von Haus oder Wohnung angeschlossen wird.

Mit einem SCHWAIGER Balkonkraftwerk hat jedermann der über einen Balkon oder eine Terrasse verfügt die Möglichkeit, aktiv und verantwortungsvoll am Prozess einer nachhaltigen Stromerzeugung teilzunehmen und seinen ganz persönlichen Beitrag zur Energiewende zu leisten.

SCHWAIGER Balkonkraftwerk kaufen, aufbauen,

Stecker in die Steckdose, fertig! So einfach geht der eigene grüne Strom.

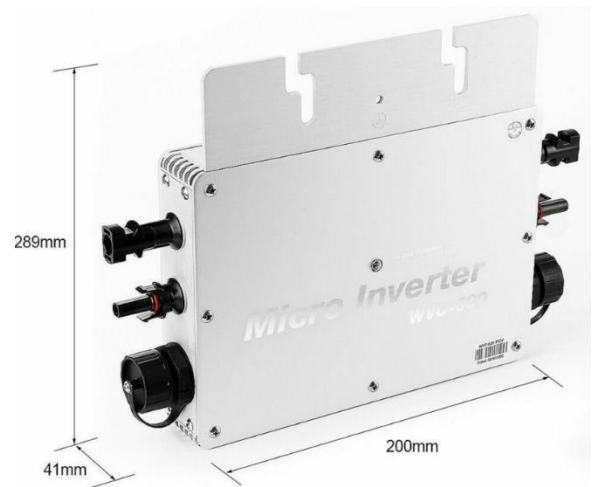
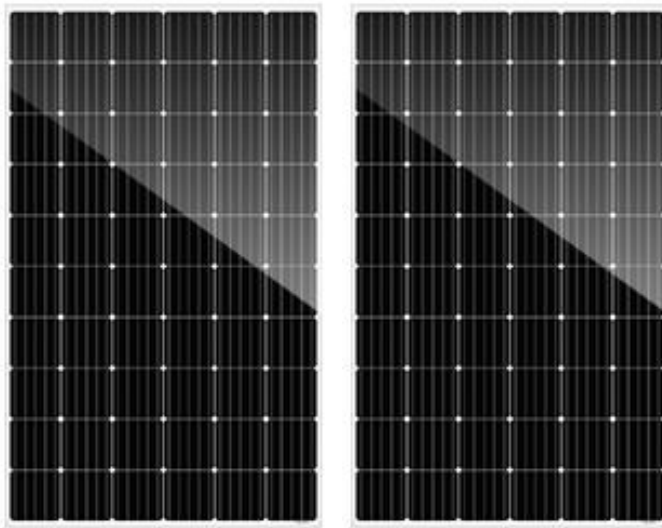
Die Stecker sind mit einem erweiterten Berührungsschutz ausgestattet. Durch die direkten USB Schnittstellen werden die Schuko Stecker nicht blockiert.



### ARTIKEL INFORMATION

Artikel-Nr.  
EAN:

SOKW0600  
4004005040562



## LEISTUNGSMERKMALE

### 1 Stück Wechselrichter 600W (Micro Inverter-600W)

mit WiFi und APP-Steuerung des Balkonkraftwerks.  
Anzeige von täglicher und total erzeugte Strommenge  
in kWh; Aktueller DC-Input und AC-Output; Inverter  
Temperatur; Leistungsverluste durch Wettereffekte;  
Online Ein/Aus -schaltbar

- Lieferumfang: 2x Solar Panel a 300W, 1x Inverter für 600W/ WiFi steuerbar, 1x Montagematerial, 1x Schuko Anschlusskabel 5m

## TECHNISCHE DATEN

### Monokristallines PV Modul (285-325W)

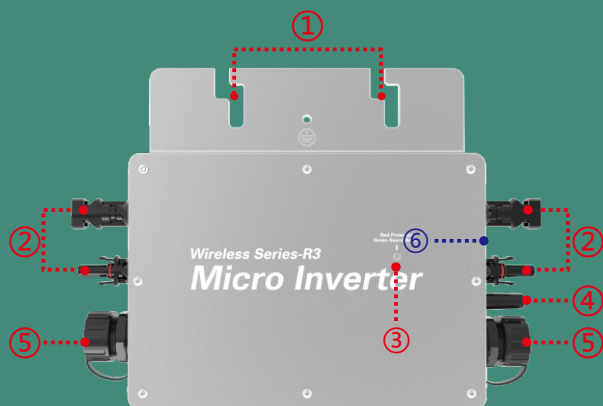
Typ: Monocrystalline 6"  
Menge Zellen: 60 (6x10)  
Abmessung: 1.640x992x35mm  
Front: 3,2mm gehärtetes Glas mit Antireflex Beschichtung  
Rahmen: Aluminium  
Schutzklasse: IP68  
Effizienz: Hoher Modulwirkungsgrad durch innovatives Zellen-Design und Multi-Busbar (MBB) Zelltechnologie

|                       |              |
|-----------------------|--------------|
| Einsatzort            | Außenbereich |
| Farbe                 | Silber, blau |
| Gewicht               | 17,5kg       |
| Anschlusskabel-Länge: | 5m           |



# Single PV input: WVC-600W, Micro inverter

Communication mode: WiFi/433MHz/lot

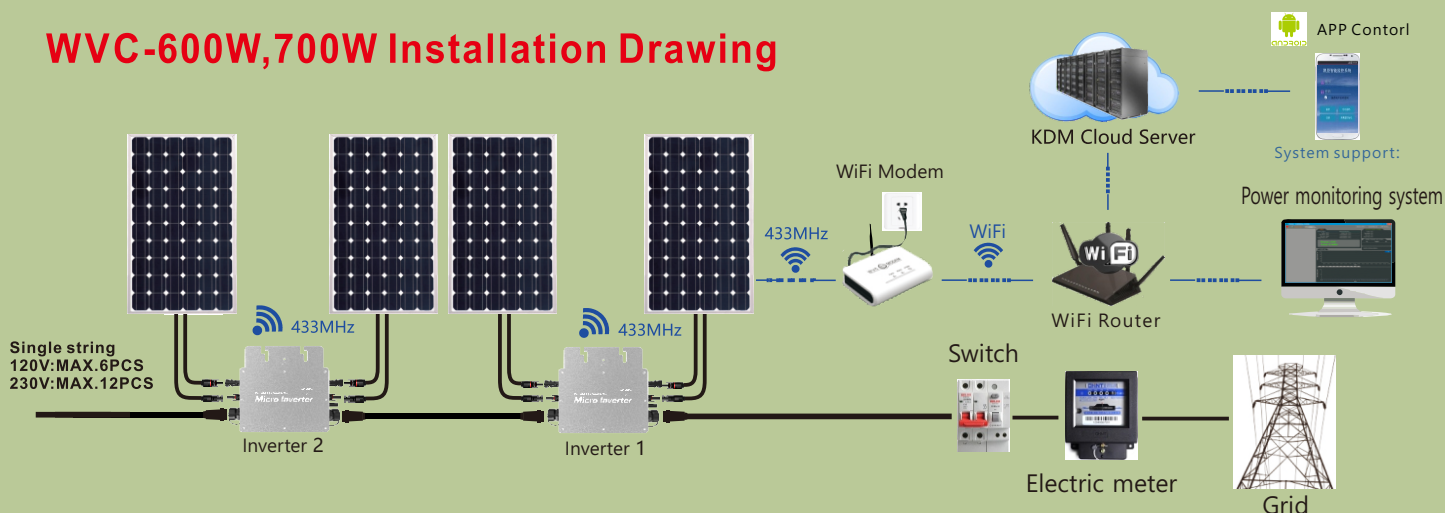


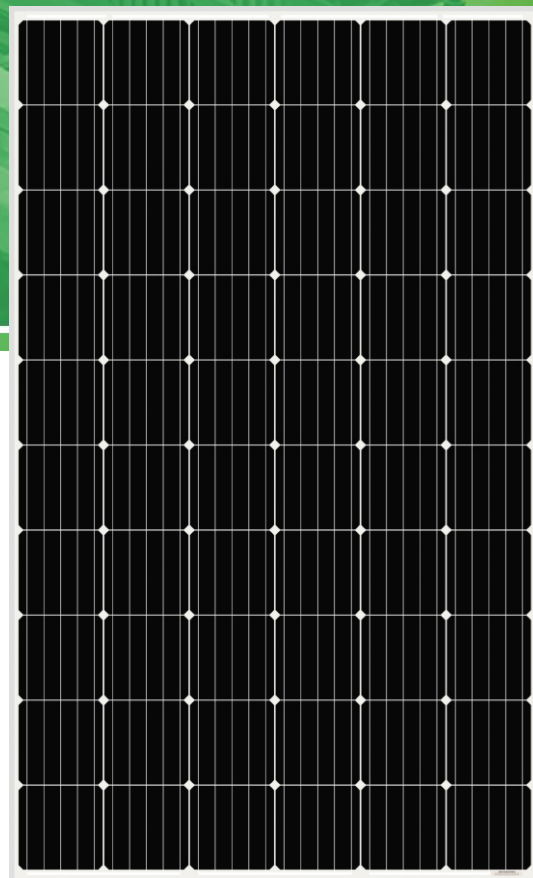
1 MPPT

- ① Micro inverter fixing hole
- ② 30~54V DC Input connected to PV module
- ③ LED status indicator
- ④ WiFi Antenna
- ⑤ AC output terminal, connect previous/next/connect to grid access point
- ⑥ Network function key (only in WiFi version)

| Model                             | WVC-600W                                           |                  |  |
|-----------------------------------|----------------------------------------------------|------------------|--|
| Maximum input power               | 620Watt                                            |                  |  |
| Output voltage mode               | 120/230V Auto switch                               |                  |  |
| PV Open circuit voltage           | 33-54VOC                                           |                  |  |
| Operating voltage range           | 22-60V                                             |                  |  |
| Starting voltage range            | 22-60V                                             |                  |  |
| short-circuit current             | 30A                                                |                  |  |
| Maximum working current           | 23A                                                |                  |  |
| Output parameters                 | @120V                                              | @230V            |  |
| Output peak power                 | 660Watt                                            | 660Watt          |  |
| Rated output power                | 600Watt                                            | 600Watt          |  |
| Output current                    | 5A                                                 | 2.6A             |  |
| AC voltage range                  | 85-160V                                            | 185-265V         |  |
| AC frequency range                | 47~52/57~62Hz                                      | 47-52/57-62Hz    |  |
| Power factor                      | >94%                                               | >94%             |  |
| Number of branch connections.     | 6PCS ( Single )                                    | 12PCS ( Single ) |  |
| Output efficiency                 |                                                    |                  |  |
| Static MPPT efficiency            | 99.5%                                              |                  |  |
| Max output efficiency             | 95%                                                |                  |  |
| Loss of power at night            | <0.5W                                              |                  |  |
| Total current harmonics           | <5%                                                |                  |  |
| Appearance and technical features |                                                    |                  |  |
| Temperature range                 | -20°C to +50°C                                     |                  |  |
| Size ( L×W×H )                    | 283mm×200mm×41.6mm                                 |                  |  |
| Net amount                        | 1.44kg                                             |                  |  |
| Waterproof grade                  | Ip65 NEMA3R                                        |                  |  |
| Heat dissipation mode             | Self-cooling                                       |                  |  |
| Communication mode                | 433MHz/WiFi/lot                                    |                  |  |
| Power transmission mode           | Reverse transmission, Load priority                |                  |  |
| monitoring system                 | Mobile phone APP、Browser                           |                  |  |
| electromagnetic compatibility     | EN50081.part1 EN50082.Part1.CSA STD.C22.2 No.107.1 |                  |  |
| Power grid                        | EN61000-3-2 EN62109.UL STD.1741                    |                  |  |
| Power grid detection              | DIN VDE 0126 IEEE STD.1547.1547.1 and 1547.A       |                  |  |
| certificate                       | CEC , CE , INMETOR , ETL , Patented technology     |                  |  |
| Packing weight                    |                                                    |                  |  |
| Specifications                    | Each ( Packing )                                   |                  |  |
| weight                            | 2.8KG                                              |                  |  |
| Size                              | 342×240×115mm                                      |                  |  |

## WVC-600W,700W Installation Drawing





## Monocrystalline PV Module

**SM285~325W(60)**

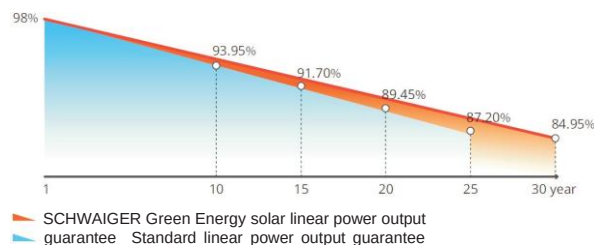
**285-325W**

### QUALITY GUARANTEE

- 15-Year material & technology warranty
- 30-Year linear power output warranty

### CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO 9001 :2015: Quality management system
- ISO 14001 :2015: Environmental management system
- ISO 45001 :2018: Occupational health and safety management system



### SUPER PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 20.9% by using innovative Whole-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.



| MECHANICAL CHARACTERISTICS |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Cell type                  | Monocrystalline 6inch                                                     |
| Number of cells            | 60(6x10)                                                                  |
| Module dimensions          | 1640x992x35mm (64.57x39.06x1.38inches)                                    |
| Weight                     | 17.5kg (38.6lbs)                                                          |
| Front cover                | 3.2mm(0.13inches) tempered glass with AR coating                          |
| Frame                      | Anodized aluminum alloy                                                   |
| Junction box               | ≥IP68 & UL                                                                |
| Cable                      | 4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Length: 900mm (35.43inches) |
| Connector                  | MC4 or MC4 compatible                                                     |

| TEMPERATURE CHARACTERISTICS               |             |
|-------------------------------------------|-------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C    |
| Temperature Coefficients of Pmax          | -0.38% / °C |
| Temperature Coefficients of Voc           | -0.29% / °C |
| Temperature Coefficients of Isc           | 0.052% / °C |

| PACKAGING                        |                       |
|----------------------------------|-----------------------|
| Standard packaging               | 31pcs/pallet          |
| Module quantity per 20'container | 372pcs                |
| Module quantity per 40'container | 868pcs(GP)/952pcs(HQ) |

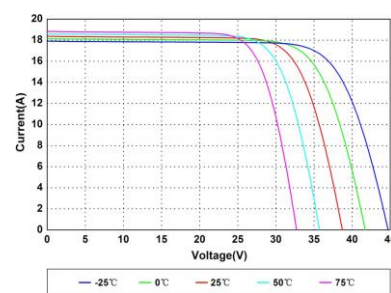
| ELECTRICAL CHARACTERISTICS AT STC |                                                       |       |       |       |       |       |       |        |        |
|-----------------------------------|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|
| Maximum Power (Pmax)              | 285W                                                  | 290W  | 295W  | 300W  | 305W  | 310W  | 315W  | 320W   | 325W   |
| Open Circuit Voltage (Voc)        | 39V                                                   | 39.2V | 39.4V | 39.6V | 39.8V | 40.0V | 42.2V | 42.4V  | 42.6V  |
| Short Circuit Current (Isc)       | 9.44A                                                 | 9.53A | 9.62A | 9.70A | 9.79A | 9.88A | 9.97A | 10.06A | 10.15A |
| Voltage at Maximum Power (Vmp)    | 31.8V                                                 | 32V   | 32.2V | 32.4V | 32.6V | 32.8V | 33.0V | 33.2V  | 33.4V  |
| Current at Maximum Power (Imp)    | 8.97A                                                 | 9.07A | 9.17A | 9.26A | 9.36A | 9.46A | 9.55A | 9.64A  | 9.73A  |
| Module Efficiency(%)              | 17.52                                                 | 17.83 | 18.13 | 18.44 | 18.75 | 19.05 | 19.36 | 19.67  | 19.98  |
| Operating Temperature             | -40°C to +85°C                                        |       |       |       |       |       |       |        |        |
| Maximum System Voltage            | 1000V DC / 1500V DC                                   |       |       |       |       |       |       |        |        |
| Fire Resistance Rating            | Type 1(in accordance with UL 1703)/Class C(IEC 61730) |       |       |       |       |       |       |        |        |
| Maximum Series Fuse Rating        | 15A                                                   |       |       |       |       |       |       |        |        |

STC Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1 5; Tolerance of Pmax ±3%; Measurement Tolerance ±3%

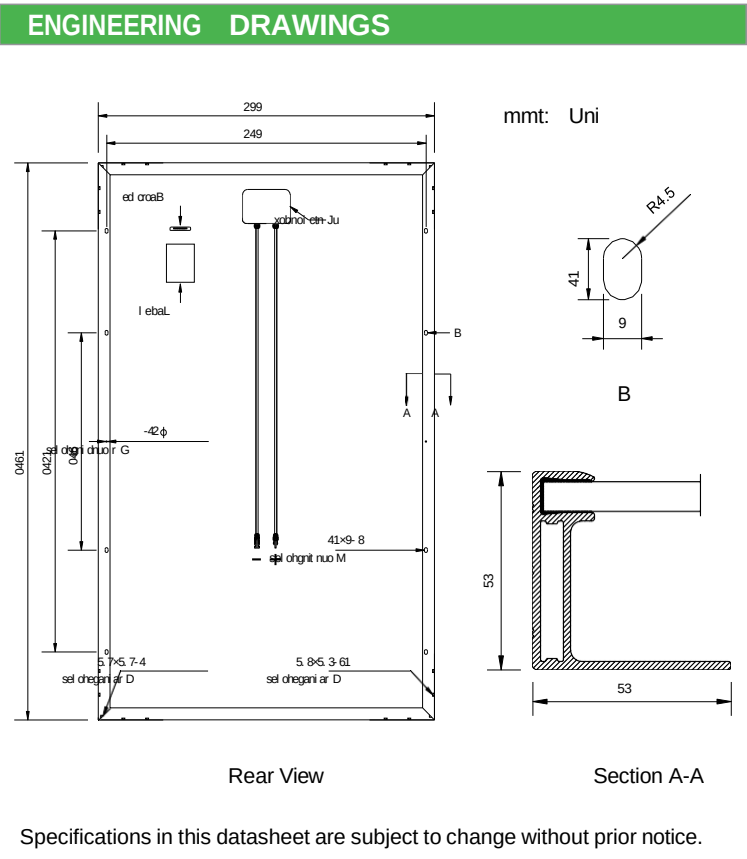
| ELECTRICAL CHARACTERISTICS AT NOCT |       |       |       |       |       |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax)               | 211W  | 215W  | 218W  | 222W  | 226W  | 230W  | 234W  | 238W  | 242W  |
| Open Circuit Voltage (Voc)         | 35.9V | 36.1V | 36.3V | 36.5V | 36.7V | 36.9V | 37.1V | 37.3V | 37.5V |
| Short Circuit Current (Isc)        | 7.65A | 7.72A | 7.79A | 7.86A | 7.93A | 8.00A | 8.08A | 8.15A | 8.22A |
| Voltage at Maximum Power (Vmp)     | 29V   | 29.2V | 29.4V | 29.6V | 29.8V | 30.0V | 30.2V | 30.4V | 30.6V |
| Current at Maximum Power (Imp)     | 7.28A | 7.37A | 7.42A | 7.50A | 7.59A | 7.67A | 7.75A | 7.83A | 7.9A  |

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures