

Single-Phase String Inverters 1 kW to 3 kW

> Residential, Solar Inverters



Zevelution Series 1000S/1500S/2000S/3000S

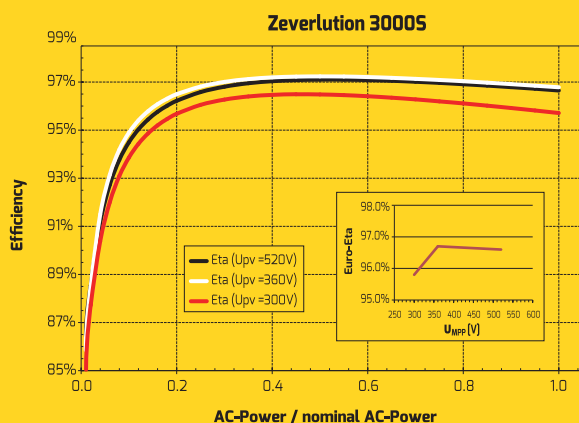
Introduction

The Zevelution inverter generation combines all aspects of our beliefs into simple, reliable and affordable PV inverters. By introducing a patented inverter topology we used less power electronic components for further increased reliability. At the same time we have reduced the weight of the inverter by nearly 50%, making it even simpler to install and use. An increased efficiency of 97.5% makes the use of PV systems even more affordable. Furthermore you can retrofit Ethernet and WiFi communication, whenever you want, our Zevelution series.

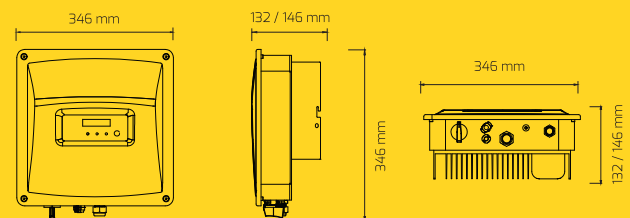
Features

- Extremely lightweight with only 7.3 kg
- Compact design with IP65 casing for outdoor use
- Sunclix connectors for toolless DC wiring
- Higher power yield with efficiency of 97.5%
- Extremely quiet with only 15dB noise
- Higher operating altitude up to 3000m without derating
- Optional and retrofitable integrated Ethernet and Wi-Fi communication
- Support remote firmware update

Conversion efficiency



Dimensions



Single-Phase String Inverters 1 kW to 3 kW

| Technical data | Zevelution 1000S | Zevelution 1500S | Zevelution 2000S | Zevelution 3000S |
|---|-----------------------------------|--|-------------------|------------------|
| Input (DC) | | | | |
| DC convertible power (@cosφ=1) | 1150W | 1750W | 2350W | 3150W |
| Max. input voltage | 500V | | 600V | |
| MPP voltage range / rated input voltage | 70-450V / 360V | | 70-520V / 360V | |
| Min. start voltage | 80V | | 80V | |
| Min. feed-in power | 6W | | 6W | |
| Max. input current per MPPT | 11A | | 11A | |
| Number of MPPTs | 1 | | 1 | |
| Number of independent MPP inputs | 1 | | 1 | |
| Output (AC) | | | | |
| Rated active power | 1000W | 1500W | 2000W | 3000W |
| Max. apparent AC power | 1100VA | 1650VA | 2200VA | 3000VA |
| Nominal AC voltage / range | 220V,230V,240V / 180V-280V | | | |
| AC power frequency / range | 50,60 / +5Hz | | | |
| Rated power frequency / rated grid voltage | 50Hz / 230V | | | |
| Max. output current | 5.5A | 7.5A | 10A | 15A |
| Power factor (@rated power) | 1 | | | |
| Adjustable displacement power factor | 0.8 inductive ... 0.8 capacitive | | | |
| Feed-in phases / connection phases | 1 / 1 | | | |
| Harmonic distortion (THD) at rated output | < 3% | | | |
| Efficiency | | | | |
| Max. efficiency / European weighted efficiency | 97% / 96.3% | 97.2% / 96.5% | 97.3% / 96.7% | 97.5% / 97% |
| MPPT efficiency | 99.50% | 99.50% | 99.50% | 99.50% |
| Protective devices | | | | |
| DC isolator | ○ | | | |
| PV iso / Grid monitoring | ● / ● | | | |
| DC reverse polarity protection / AC short-circuit current capability | ● / ● | | | |
| GFCI function | ● | | | |
| Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1) | I / II (DC), III (AC) | | | |
| General data | | | | |
| Interface ¹⁾ : RS485 / Ethernet / WIFI | ● / ○ / ○ | | | |
| Earth Fault Alarm | cloud based,audible and visible | | | |
| Display | 16 x 2 characters | | | |
| Dimensions (W x H x D) | 346 x 346 x 132mm | | 346 x 346 x 146mm | |
| Weight | 7.3kg | | 8kg | |
| Cooling concept | convection | | | |
| Noise emission (typical) | < 15 dB(A)@1m | | | |
| Installation | indoor & outdoor | | | |
| Mounting information | wall mounting bracket | | | |
| DC connection technology | SUNCLIX | | | |
| AC connection technology | screw clamp terminal | | | |
| Operating temperature range | -25°C...+60°C / -13°F...+140°F | | | |
| Relative humidity (non-condensing) | 0% ... 100% | | | |
| Max. operating altitude | 4000m (>3000m derating) | | | |
| Degree of protection (according to IEC 60529) | IP65 | | | |
| Climatic category (according to IEC 60721-3-4) | 4K4H | | | |
| Topology | H5 | | | |
| Self-consumption (night) | < 1W | | | |
| Standby power | < 6W | | | |
| Certificates and approvals (more available on request) | CE, NEN50438, G83/2, VDE-AR-N4105 | CE, AS4777, NEN50438, G83/2, VDE-AR-N4105, VDE0126-1-1 | | |

● standard ○ optional - not available

1) Optional and retrofitable ComBox (ETH or ETH & WIFI configuration) will replace RS485 port functionality

As of October, 2015 / Technical data is subject to revisions.