

Single-Phase String Inverters 1 kW to 3 kW

> Residential, Solar Inverters



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

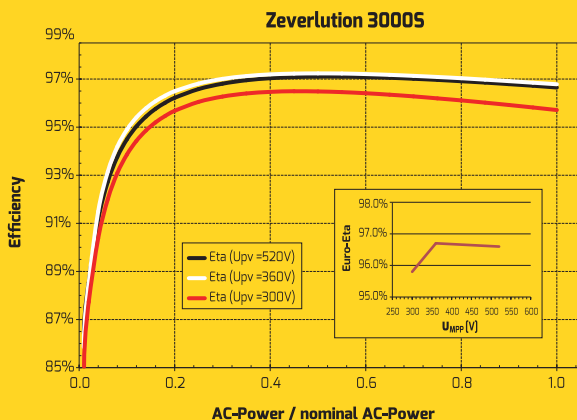
Introduction

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 integrated monitoring via Ethernet or Wi-Fi communication is available, whenever you want, our Zevelution series.

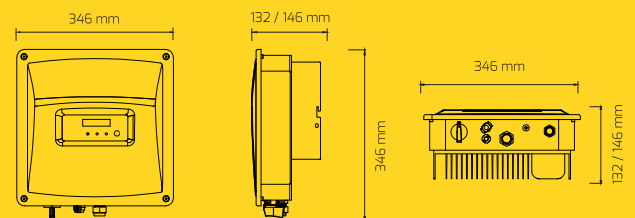
Features

- Extremely lightweight with only 6.5 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 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)				
Maximum PV array power (STC)	1430 Wp	2140 Wp	2860 Wp	3900 Wp
Maximum DC power at $\cos \phi = 1$	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	20W			20W
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				
Interfaces: RS485 / RS485 ¹⁾ & Ethernet & Wi-Fi & a.RJ45 ²⁾ (DRED)	● / ○			
Earth Fault Alarm ³⁾	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	6.5kg			6.8kg
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	transformerless			
Self-consumption (night)	< 1W			
Standby power	< 6W			

● standard ○ optional - not available

1) 2-pin RS485 for connection to approved smart meters in zero export installations (replacing standard RS485 on RJ 45 connector)

2) Analog RJ45 interface to DRED in Australia & New Zealand

3) Selectable in ZevelCloud; audible alarm will only be activated in AS4777 setting

As of January, 2018 / Technical data is subject to revisions.