Single-Phase String Inverters 1 kW to 3 kW

> Residential, Solar Inverters



Zeverlution Series 10005 / 15005 / 20005 / 30005

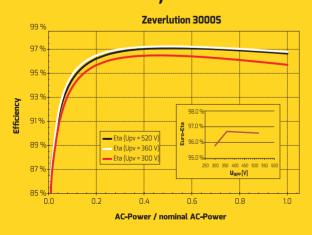
Introduction

The Zeverlution 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 % ensures higher generation over the life time of your pv plant. Furthermore, integrated monitoring via Ethernet or Wi-Fi communication is available whenever you want, our Zeverlution series.

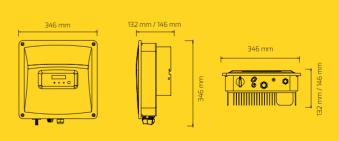
Features

- Extremely lightweight at only 6.5 kg
- Compact design with IP65 casing for outdoor use
- Plug-in AC connector for easy electrical installation
- SUNCLIX connectors for toolless DC wiring
- Higher power yield with efficiency of 97.5 %
- Extremely quiet at less than 15 dB
- Higher operating altitudes up to 3000 m without
- Optional integrated Ethernet and Wi-Fi communication
- Supports remote firmware update

Conversion efficiency



Dimensions



Single-Phase String Inverters 1 kW to 3 kW

Technical data	Zeverlution 1000S	Zeverlution 1500S	Zeverlution 2000S	Zeverlution 3000S
Input (DC)				
Max. PV array power	1430 Wp STC	2140 Wp STC	2860 Wp STC	3900 Wp STC
Max. input voltage	500 V	500 V	500 V	600 V
MPP voltage range / rated input voltage	70 V to 450 V / 360 V	70 V to 450 V / 360 V	70 V to 450 V / 360 V	70 V to 520 V / 360 V
Min. input voltage	70 V	70 V	70 V	70 V
Initial feed-in voltage	90 V	90 V	90 V	150 V
Max. operating input current per MPPT	11A			
Max. short circuit current per MPPT / per string input	16.5 A / 16.5 A			
Number of independent MPPT inputs / strings per MPPT input	1/1			
Output (AC)				
Rated power	1000 W	1500 W	2000 W	3000 W
Max. apparent AC power	1100 VA	1650 VA	2200 VA	3000 VA
AC nominal voltage	220 V / 230 V / 240 V			
AC voltage range	180 V to 280 V			
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz			
Rated grid frequency / rated grid voltage		50 Hz ,	/ 230 V	
Max. output current	5.5 A	7.5 A	10 A	15 A
Power factor at rated power			1	
Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited			
Feed-in phases	1			
Harmonic distortion (THD) at rated output	<3%			
Efficiency				
Max. efficiency / European efficiency	97 % / 96.3 %	97.2 % / 96.5 %	97.3 % / 96.7 %	97.5 % / 97 %
Protective devices	ı			
Input-side disconnection device				
Ground fault monitoring / grid monitoring	•/•			
DC reverse polarity protection / AC short circuit current capability	•/•			
All-pole-sensitive residual-current monitoring unit	•			
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II			
General data	ı	· · · · · · · · · · · · · · · · · · ·		
Dimensions (W / H / D)	346 / 346 / 132 mm	346 / 346 / 132 mm	346 / 346 / 132 mm	346 / 346 / 146 mm
Weight	6.5 kg	6.5 kg	6.5 kg	6.8 kg
Operating temperature range	-25 °C to +60 °C			
Noise emission (typical)	< 15 dB(A)			
Self-consumption (at night)	<1W			
Topology	Transformerless			
Cooling concept	Convection			
Degree of protection (according to IEC 60529)	IP65			
Climatic category (according to IEC 60721-3-4)	4K4H			
Max. permissible value for relative humidity (non-condensing)	100 %			
Max. operating altitude	4000 m (>3000m derating)			
Features				
DC connection	SUNCLIX			
AC connection	Plug-in connector			
Mounting type	Wall mounting bracket			
Display	16 x 2 characters LCD			
LED Indicators (Status / Fault / Communication)	•			
Interface: RS485 / WLAN & Ethernet ^{1) & 2)}	0/0			
Certificates and approvals (more available on request)	CE, EN50438, G83/2, VDE-0126, VDE-AR-N4105, A5/NZ5 4777, C10/C11, VFR 2014 & UTE C15, TOR D4 V2, CN515382, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068			
Type designation	Zeverlution 10005	Zeverlution 1500S	Zeverlution 20005	Zeverlution 30005

[•] standard o optional - not available

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