

Single-Phase String Inverters 3 kW to 3.68 kW

> Residential, Solar Inverters



Zeverlution Series 3000SE/3680SE

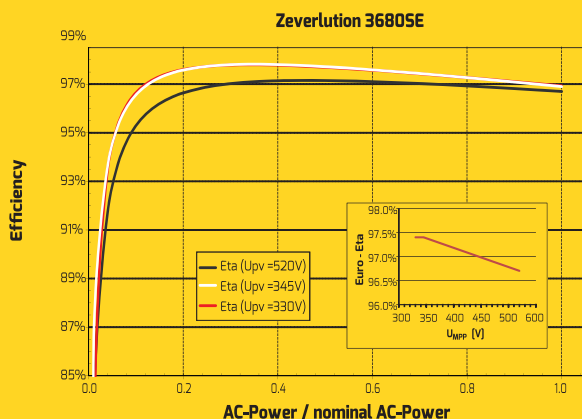
Introduction

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 97.8% makes the use of PV systems even more affordable. Furthermore you can retrofit Ethernet and WiFi communication, whenever you want, our Zeverlution series.

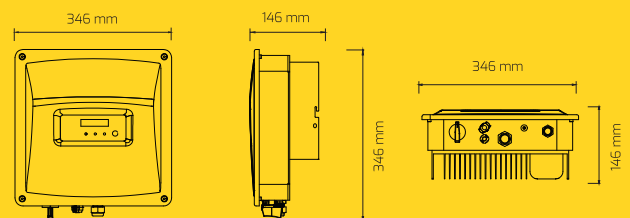
Features

- 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 97.8%
- Compatible with smart modules and DC optimizers
- Optional and retrofitable integrated Ethernet and Wi-Fi communication
- Support remote firmware update

Conversion efficiency



Dimensions



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Technical data	Zeverlution 3000SE	Zeverlution 3680SE
Input (DC)		
DC convertible power (@cosφ=1)	3450W	3720W ²⁾
Max. input voltage	600V ²⁾	
MPP voltage range / rated input voltage	330-520V / 345V	
Min. start voltage	110V	
Min. feed-in power	8.5W	
Max. input current per MPPT	11A	
Number of MPPTs	1	
Number of independent MPP inputs	1	
Output (AC)		
Rated active power	3000W	3680W
Max. apparent AC power	3300VA	3680VA
Nominal AC voltage / range	220,230,240V / 180-280V	
AC power frequency / range	50,60 / +5Hz	
Rated power frequency / rated grid voltage	50Hz / 230V	
Max. output current	16A	
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	97.8% / 97.4%	97.8% / 97.4%
MPPT efficiency	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	● / ○ / ○	
Display	16 x 2 characters	
Dimensions (W x H x D)	346 x 346 x 146mm	
Weight	7.3kg	
Cooling concept	convection	
Noise emission (typical)	< 25 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	8.5W	
Certificates and approvals (more available on request)	CE, IEC62109-1, IEC62109-2, AS/NZS3100, VDE-AR-N 4105, AS4777.2, AS4777.3, NEN50438, G83/2, NBT32004(CQC)	CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, NEN50438, G83/2

● standard ○ optional – not available

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

2) These are inverter specifications, by using DC optimizers different string configurations are possible, but these must still comply with the inverter specifications.

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