Single-Phase String Inverters 3.68 kW to 5 kW

> Residential, Solar Inverters



Zeverlution Series 3680/4000/5000

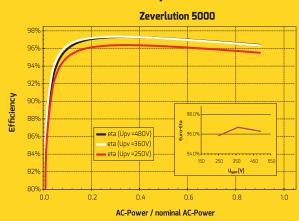
Introduction

The Zeverlution inverter generation combines all aspects of our beliefs into simple, reliable and affordable PV inverters. By introducing a patented inverter topology we use less power electronic components for further increased reliability. At the same time we have reduced the weight of the inverter by nearly 40%, making it even simpler to install and use. With an even wider MPPT range you can benefit from maximum power more often. Furthermore integrated monitoring via Ethernet or WiFi communication is available, whenever you want, our Zeverlution series.

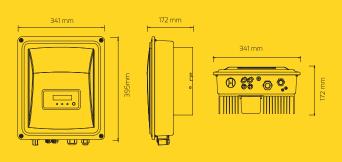
Features

- Dual MPPT for flexible installation
- · Lightweight less than 11 kg
- Compact design with IP65 casing for outdoor use
- Sunclix connectors for toolless DC wiring
- Quiet with only 25dB noise
- High operating altitude up to 4000m
- Optional and retrofitable integrated Ethernet and Wi-Fi communication
- Support remote firmware update

Conversion efficiency



Dimensions



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Technical data	Zeverlution 3680	Zeverlution 4000	Zeverlution 5000	
Input (DC)				
DC convertible power (@cosφ=1)	3900W	4650W	5300W	
Max. input voltage		600V		
MPP voltage range / rated input voltage	100-520V / 360V			
Min. start voltage	80V			
Min. feed-in power	30W			
Max. input current per MPPT		11A / 11A		
Number of MPPTs	2			
Number of independent MPP inputs	1/1			
Output (AC)				
Rated active power	3680W	4000W	5000W ¹⁾	
Max. apparent AC power	3680VA	4400VA	5000VA ¹⁾	
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	16A	20A	23A ²⁾	
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	97.2% / 96.5%	97.2% / 96.5%	97.2% / 96.5%	
MPPT efficiency	99.50%	99.50%	99.50%	
Protective devices				
DC isolator o				
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 ³⁾ & Ethernet & WIFI & a.RJ45 ⁴⁾ (DRED)	• <i>I</i> o			
Earth Fault Alarm ⁵⁾	cloud based, audible and visible			
Display	16 x 2 characters			
Dimensions (W x H x D)	341 x 395 x 172mm			
Weight	11kg			
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	transformerless			
Self-consumption (night)	< 1W			
Standby power	< 8.5W			
• standard · optional - not available	tional _not available As of January , 2017 / Technical data is subject to revisions.			

[•] standard o optional - not available

1) Based on the VDE 4105 requirements active power and apparent power will be limited to 4600W and 4600WA

2) 21.7A according to AS/NZ54777.2:2015

3) 2-pin RS495 for connection to approved smart meters in zero export installations (replacing standard RS485 on RJ 45 connector)

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

5) Selectable in ZeverCloud; audible alarm will only be activated in AS4777 setting