

# Three-Phase String Inverter 33 kW

> Commercial, Industrial, Solar Inverter



## Zeverlution Pro 33K

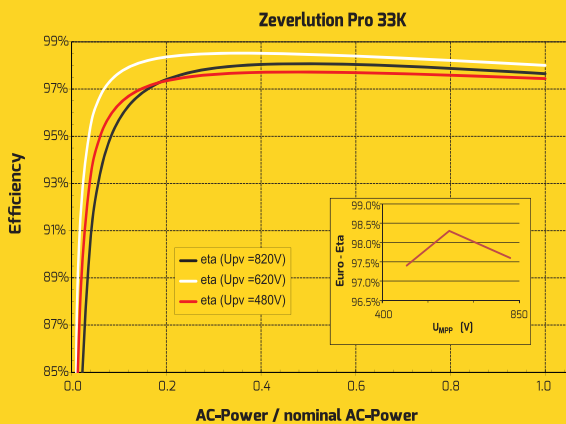
### Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy. Now we are revolutionizing access to solar power also for multi-MW utility grade PV plants. You will benefit from highest efficiency, lowest start voltage, wide MPPT range and Modbus support. Because great plants are not made with powerful words alone, our Zeverlution Pro series.

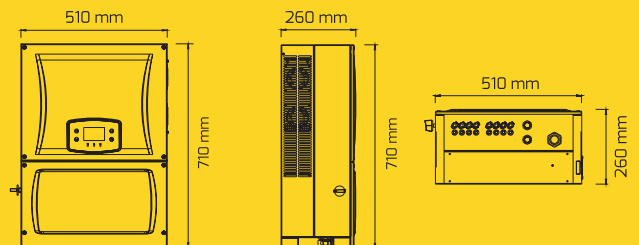
### Features

- Efficiency up to 98.5%
- Lightweight, only 58kg
- Compact IP65 casing ideal for PV plants
- Integrated DC and AC surge protection for highest safety
- RS485 and Modbus RTU communications
- Separate wiring compartment for convenient and reliable installation
- Complete grid and plant management functions via ZeverManager or Modbus-compliant 3rd party management devices
- Easy handling for installation and maintenance

### Conversion efficiency



### Dimensions



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Technical data	Zevelution Pro 33K
<b>Input (DC)</b>	
DC convertible power (@cosφ=1)	34750W
Max. input voltage	1000V
MPP voltage range / rated input voltage	270-950V / 620V
Min. start voltage	250V
Min. feed-in power	25W
Max. input current per MPPT	34A / 34A
Max. input current per string	12A
Number of MPPTs	2
Number of independent MPP inputs	4 / 4
<b>Output (AC)</b>	
Rated active power	33000W <sup>1)</sup>
Max. apparent AC power	33000VA <sup>1)</sup>
Nominal AC voltage	3/N/PE, 220/380V, 230/400V
Nominal AC voltage range (line to line)	277-520V
AC power frequency / range	50,60 / +-5Hz
Rated power frequency / rated grid voltage	50Hz / 230V
Max. output current	3 x 48A
Power factor (@rated power)	> 0.99
Adjustable displacement power factor	0.85 inductive ... 0.85 capacitive
Feed-in phases / connection phases	3 / 3
Harmonic distortion (THD) at rated output	< 3%
<b>Efficiency</b>	
Max. efficiency / European weighted efficiency	98.5% / 98.2%
MPPT efficiency	99.50%
<b>Protective devices</b>	
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)
Surge protection DC (SPD Type II) / AC (MOV Type II)	• / •
<b>General data</b>	
Interfaces: RS485 / Ethernet / WIFI	• / - / -
Earth Fault Alarm <sup>2)</sup>	cloud based, audible and visible
Display	graphical LCD
Dimensions (W x H x D)	510 x 710 x 260mm
Weight	58kg
Cooling concept	fan cooling
Noise emission (typical)	< 60 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	2000m
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	< 12W
Certificates and approvals (more available on request)	CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, G59/3, NEN EN50438:2013, AS/NZ53100, AS4777.2, AS4777.3, NB/T32004-2013(CQC), GB/T19964-2012

• standard o optional - not available

1) Rated active and max apparent power are limited to 30kW and 30kVA for Australia market  
2) Selectable in Zevelution; audible alarm will only be activated in AS4777 setting

As of January, 2016 / Technical data is subject to revisions.