

# Three-Phase String Inverter 30kW

> Commercial, Industrial, Solar Inverter



## Zeverlution Pro 30K

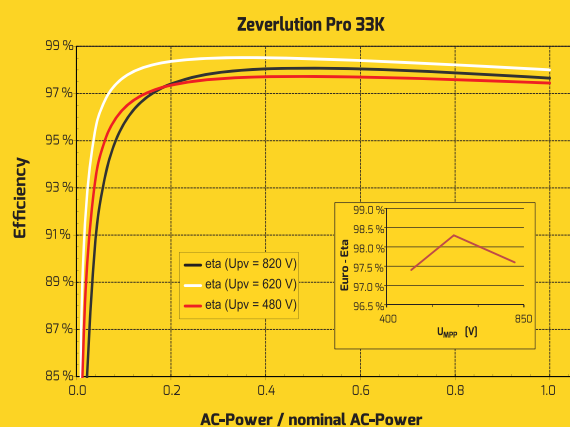
### Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy. Now we are also revolutionizing access to solar power 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.

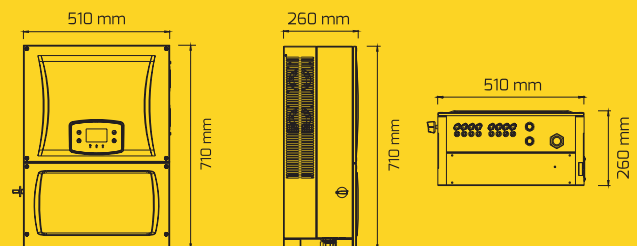
### Features

- Efficiency up to 98.5 %
- Lightweight, only 58 kg
- 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, ZeverCom (for DRM) or Modbus-compliant 3rd party management devices
- Easy handling for installation and maintenance

### Conversion efficiency



### Dimensions



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Technical data	Zevelution Pro 30K <sup>1)</sup>
<b>Input (DC)</b>	
Max. PV array power	49500 Wp STC
Max. input voltage	1000 V
MPP voltage range / rated input voltage	270 V to 950 V / 620 V
Min. input voltage	250 V
Initial feed-in voltage	300 V
Max. operating input current per MPPT input A / input B	34 A / 34 A
Max. input current per string input A / input B	12 A / 12 A
Number of independent MPPT inputs / strings per MPPT input	2 / A: 4; B: 4
<b>Output (AC)</b>	
Rated power	30000 W
Max. apparent AC power	30000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V
AC voltage range	160 V to 300 V
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V
Max. output current / rated output current	3 x 48 A / 3 x 43.5 A
Power factor at rated power / adjustable displacement power factor	1 / 0.80 overexcited to 0.80 underexcited
Feed-in phases / AC connection	3 / 3-N-PE
Harmonic distortion (THD) at rated output	< 3 %
<b>Efficiency</b>	
Max. efficiency / European efficiency	98.5 % / 98.2 %
<b>Protective devices</b>	
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)	•
DC surge arrester (Type II)	•
AC surge protection	•
<b>General data</b>	
Dimensions (W / H / D)	510 / 710 / 260 mm
Weight	58 kg
Operating temperature range	-25 °C to +60 °C
Noise emission (typical)	< 60 dB(A)
Self-consumption (at night)	< 1 W
Topology	Transformerless
Cooling concept	Fan cooling
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	2000 m
<b>Features</b>	
DC connection	SUNCLIX
AC connection	Screw terminals
Mounting type	Wall mounting bracket
Display	Graphical LCD
LED Indicators (Status / Fault / Communication)	•
Interface: RS485 / WLAN & Ethernet	• / -
Data interfaces: Zevsolar Modbus	•
Certificates and approvals (more available on request)	IEC 62109-1/2, AS 4777
Type designation	Zevelution Pro 30K

• standard ◊ optional - not available

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

1) Only for Australia, New Zealand and where these certificates are accepted