

Three-Phase String Inverter 33 kW

> Commercial, Industrial, Solar Inverter



Zeverlution Pro 33K

Introduction

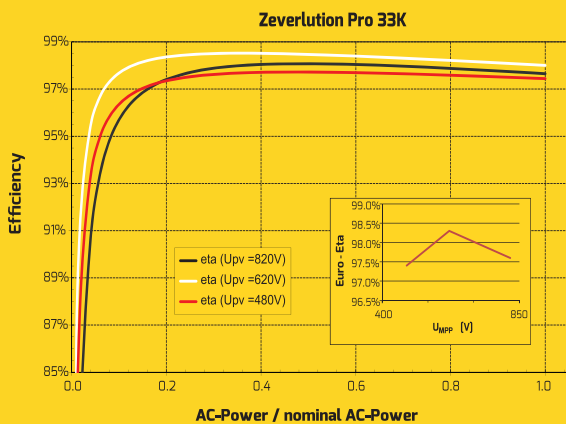
We believe that the world would be a better place if everybody had easy access to the cleanest energy. Now we are revolutionizing access to solar power also for multi-MW utility grade PV plants. You will benefit from highest efficiency, lowest start voltage, wide MPPT range and Modbus support. Because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

Features

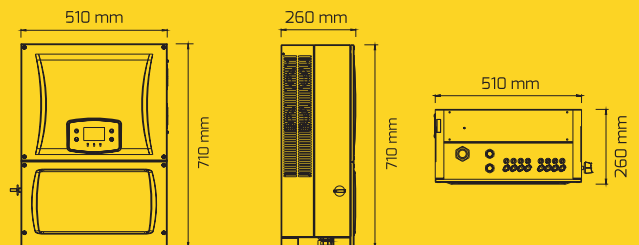
- Efficiency up to 98.5%
- Lightweight, only 58kg
- Compact IP65 casing ideal for PV plants
- Integrated DC and AC surge protection for highest safety
- RS485 and Modbus RTU communications
- Separate wiring compartment for convenient and reliable installation
- Complete grid and plant management functions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

* ZeverManager will replace PMU, effective from Q2 2015

Conversion efficiency



Dimensions



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| Technical data | Zevelution Pro 33K |
|---|--|
| Input (DC) | |
| DC convertible power (@ $\cos\phi=1$) | 34750W |
| Max. input voltage | 1000V |
| MPP voltage range / rated input voltage | 270-950V / 620V |
| Min. start voltage | 250V |
| Min. feed-in power | 30W |
| Max. input current per MPPT | 34A / 34A |
| Number of MPPTs | 2 |
| Number of independent MPP inputs | 4 / 4 |
| Output (AC) | |
| Rated active power | 33000W |
| Max. apparent AC power | 33000VA |
| Nominal AC voltage | 3/N/PE220/380V,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% |
| Efficiency | |
| Max. efficiency / European weighted efficiency | 98.5% / 98.2% |
| MPPT efficiency | 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) |
| Surge protection DC (SPD Type II) / AC (MOV Type II) | • / • |
| General data | |
| Interfaces: RS485 / Ethernet / WIFI | • / - / - |
| 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, NB/T32004-2013(CQC), VDE-AR-N 4105, GB/T19964-2012 |

• standard ◦ optional - not available

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