

3PH 250KTL-HV Z0/3PH 350KTL-HV Z0

Three-phase string inverter



- » Maximum yield 99%
- » Protection class IP66
- » Updates and diagnostics via USB
- » Forced convection with cooling at controlled speed
- » Overvoltage protection devices II (AC and DC)
- » 5 year ZCS warranty
- » Wide operating range from 500V to 1500V for increased flexibility in setup
- » Up to 8 independent MPPT channels, for a total of 32 outputs



| TECHNICAL DATA | AZZURRO 3PH 250KTL-HV Z0 | AZZURRO 3PH 330KTL-HV Z0 | AZZURRO 3PH 350KTL-HV Z0 |
|--|---|-----------------------------|-----------------------------|
| DC Input data | | | |
| Typical DC power* | 300000W | 390000W | 420000W |
| Maximum DC power for each MPPT | 72000W (860-1300V) | | |
| Number of independent MPPTs/Number of strings per MPPT | 6/4 | | 8/4 |
| Maximum DC input voltage | 1500V | | |
| Start-up voltage | 550V | | |
| Rated DC input voltage | 1160V | | |
| MPPT DC voltage range | 500V-1500V | | |
| DC voltage range at full load | 860-1300V | | |
| Maximum input current for each MPPT | 60A | | |
| Maximum absolute current for each MPPT | 100A | | |
| AC Output data | | | |
| Rated AC power | 250kW | 330kW | 350kW |
| Maximum AC power | 250kVA | 330kVA | 350kVA |
| Maximum AC current per phase | 180.5A | 238.2A | 256.6A |
| Connection type/Rated grid voltage | Three-phase 3PH/PE 800V (PH-PH) | | |
| Grid voltage range | 640V~920V (PH-PH) (according to the local grid standards) | | |
| Rated grid frequency | 50Hz/60Hz | | |
| Grid frequency range | 45Hz~55Hz / 54Hz~66Hz (according to the local grid standards) | | |
| Total harmonic distortion | <3% | | |
| Power factor | 1 (Programmable +/-0.8) | | |
| Active power adjustable range | 0~100% | | |
| Grid feed-in limit** | Feed-in adjustable from zero to nominal power value | | |
| Efficiency | | | |
| Maximum efficiency | 99.05% | | |
| Weighted efficiency (EURO) | 98.80% | | |
| MPPT efficiency | >99.9% | | |
| Consumption at night | <10W | | |
| Protections | | | |
| Internal interface protection | No | | |
| Safety protections | Anti islanding, RCMU, Ground Fault Monitoring | | |
| Enabled safety protections | PID Recovery | | |
| Reverse polarity protection DC | Yes | | |
| Monitoring of string faults | Yes | | |
| DC circuit breaker | Integrated | | |
| Overheating protection | Yes | | |
| Overvoltage category/Protection class | Overvoltage category III / Protection class I | | |
| Integrated dischargers | AC/DC: Tipo 2 standard | | |
| Standard | | | |
| EMC | EN 61000 | | |
| Safety standard | EN/IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1/2/14/30, EN 50530, IEC 62910 | | |
| Grid connection standard | Connection certificates and standards available on www.zcsazzurro.com | | |
| Communication | | | |
| Communication interface (optional) | Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, Bluetooth | | |
| General data | | | |
| Allowable ambient temperature range | -30°C...+60°C (power limit above 45°C) | | |
| Topology | Transformerless | | |
| Environmental protection class | IP66 | | |
| Allowable relative humidity range | 0%.....100% | | |
| Maximum operating altitude | 4000m | | |
| Noise level | < 60dB @ 1mt | | |
| Weight | 113 kg | | |
| Cooling | Forced fan convection | | |
| Dimensions (H x L x D) | 828mm*1159mm *366mm | | |
| Data monitoring | LED indicators + APP | | |
| Warranty | 5 years (NB: the extended warranty can be obtained by registering on the EXTENDED WARRANTY section of the zcsazzurro.com website) | | |

* The typical DC power does not represent a maximum applicable power limit. The online configurator available at www.zcsazzurro.com will provide any applicable configurations.

** Possible by using a specific meter