

# 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)
- » 10-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
<b>DC Input data</b>			
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		
<b>AC Output data</b>			
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		
<b>Efficiency</b>			
Maximum efficiency	99.05%		
Weighted efficiency (EURO)	98.80%		
MPPT efficiency	>99.9%		
Consumption at night	<10W		
<b>Protections</b>			
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		
<b>Standard</b>			
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 <a href="http://www.zcsazzurro.com">www.zcsazzurro.com</a>		
<b>Communication</b>			
Communication interface (optional)	Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, Bluetooth		
<b>General data</b>			
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 or 10 years (NB: the extended warranty can be obtained by registering on the EXTENDED WARRANTY section of the <a href="http://www.zcsazzurro.com">zcsazzurro.com</a> website)		

\* The typical DC power does not represent a maximum applicable power limit. The online configurator available at [www.zcsazzurro.com](http://www.zcsazzurro.com) will provide any applicable configurations.

\*\* Possible by using a specific meter