

ZCS AZZURRO - HV SERIES THREE-PHASE STRING INVERTER

3PH 250KTL-HV/255KTL-HV



- » Maximum yield 99%
- » Protection class of IP66
- » Updates and diagnostics via USB
- » Forced convection with speed-controlled cooling
- » Class II surge protection devices (AC and DC)
- » 5 or 10 year ZCS warranty
- » Wide operating range from 500V to 1500V for enhanced configuration flexibility
- » Up to 12 independent MPPT channels



TECHNICAL DATA	3PH 250KTL-HV	3PH 255KTL-HV
DC Input data		
Typical DC power*	306000W	
Maximum DC power for each MPPT	24000W (500V-850V)	
No. of independent MPPTs/N.o of strings per MPPT	12/2	
Maximum DC input voltage	1500V	
Start-up voltage	550V	
Nominal DC input voltage	1160V	
MPPT DC voltage range	500V-1500V	
DC voltage range at full load	800V-1300V	
Maximum input current for each MPPT	30A	
Maximum absolute current for each MPPT	50A	
AC Output data		
Rated AC power	250kW	255kW
Maximum AC power	250kVA	255kVA
Maximum AC current per phase	180.5A	184A
Connection type/Rated grid voltage	Three-phase 3PH/PE 800V (PH-PH)	
Grid voltage range	370V-530V (PH-N); 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 adjustment range (settable)	0-100%	
Grid feed-in limit	Feed adjustable from zero to nominal power value**	
Efficiency		
Maximum efficiency	99.02%	
Weighted efficiency (EURO)	98.7%	
MPPT efficiency	>99.9%	
Consumption at night	<1W	
Protection		
Internal interface protection	No	
Safety protections	Anti-islanding, RCMU, Ground Fault Monitoring	
Reverse polarity protection DC	Yes	
DC circuit breaker	Integrated	
Overheating protection	Yes	
Overvoltage category/Protection class	Overvoltage Category III / Protection class I	
Integrated dischargers	AC/DC: Type 2 standard	
Standard		
EMC	EN 61000-6-2/4, EN 61000-3-11/12	
Safety standard	IEC 62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)	
Grid connectio standard	Connection certificates and standards available at www.zcsazzurro.com	
Communication		
Communication interfaces	Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, Bluetooth	
General data		
Allowable ambient temperature range	-30°C...+60°C (power limit above 35°C)	
Topology	Transformerless	
Environmental protection class	IP66	
Allowable relative humidity range	0%.....100%	
Maximum operating altitude	5000m (power limit above 4000m)	
Noise level	< 60dB @ 1mt	
Weight	100kg	
Cooling	Forced fan convection	
Dimensions (H x L x D)	713.5mmx1100.5mm x368 mm	
Display	Led indicators, Bluetooth + app	
Warranty	5 or 10 years	

* 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