

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		13000W (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