

ZCS AZZURRO - THREE-PHASE STRING INVERTER

3PH 100KTL-V4/110KTL-V4



- » Maximum yield 98,6%
- » Protection class of IP66
- » Integrated Arc Fault Circuit Interruption and String Fault Monitoring
- » Forced convection with speed-controlled cooling
- » PID Recovery function available
- » Class II surge protection devices (AC and DC)
- » 5 or 10 year ZCS warranty
- » 180V to 1000v operating range and up to 10 independent MPPT channels for enhanced configuration flexibility



TECHNICAL DATA	3PH 100KTL-V4	3PH 110KTL-V4
DC Input data		
Typical DC power*	120000W	132000W
Maximum DC power for each MPPT	20000W	
No. of independent MPPTs / No. of strings per MPPT	10/2	
Maximum DC input voltage	1100V	
Start-up voltage	200V	
Nominal DC input voltage	625V	
MPPT DC voltage range	180V-1000V	
DC voltage range at full load	500V-850V	
Maximum input current for each MPPT	40A	
Maximum absolute current for each MPPT	50A	
AC Output data		
Rated AC power	100kW	110kW
Maximum AC power	110kVA	125kVA
Maximum AC current per phase	160A	181A
Connection type/Rated grid voltage	Three-phase 3PH/N/PE 220V/230V/240V (PH-N); 380V/400V/415V (PH-PH) or Three-phase 3PH/PE 380V/400V/415V (PH-PH)	
Grid voltage range	179V~276V (PH-N); 310V~480V (PH-PH) (according to the local grid standards)	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45Hz~55Hz / 55Hz~65Hz (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-in adjustable from zero to nominal power value**	
Efficiency		
Maximum efficiency	98.6%	
Weighted efficiency (EURO)	98.3%	
MPPT efficiency	>99.9%	
Consumption at night	<1W	
Protections		
Internal interface protection	No	
Safety protections	Anti islanding, RCMU, Ground Fault Monitoring, Arc Fault Circuit Interruption	
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	
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	75 kg	
Cooling	Forced fan convection	
Dimensions (H x L x D)	695 mm x 970mm x 325 mm	
Data monitoring	LCD Display + 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