

3PH 100KTL-V4/110KTL-V4

Three-phase string inverter



- » 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,	
Enabled safety protections	Arc Fault Circuit Interruption, PID Recovery	
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 (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