

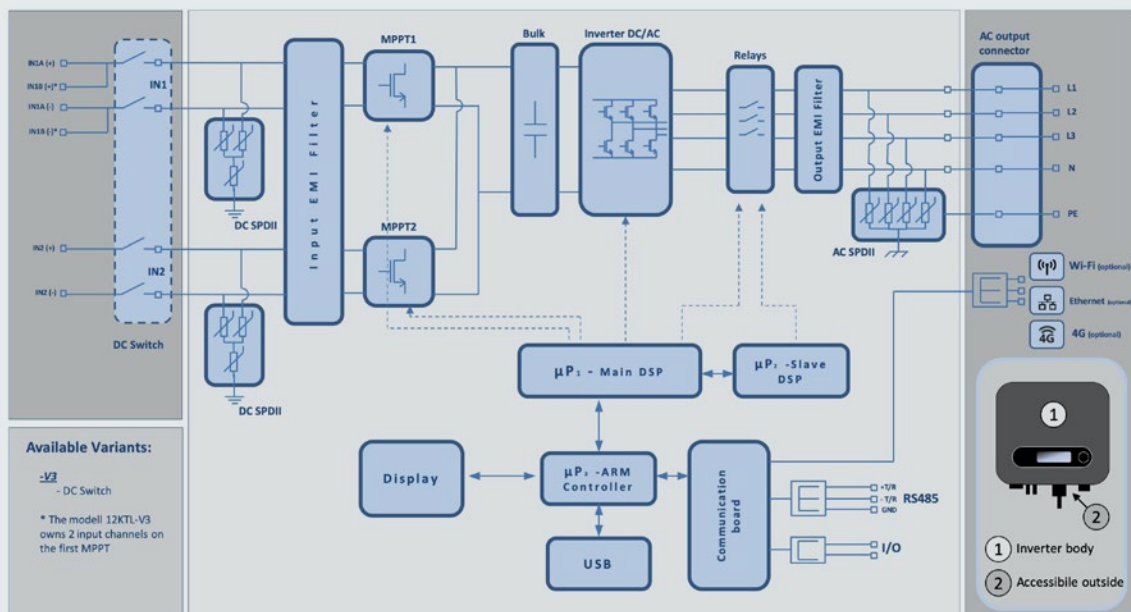
ZCS AZZURRO - THREE-PHASE STRING INVERTER

3PH 3.3KTL-V3/3PH 4.4KTL-V3/3PH 5.5KTL-V3/3PH 6.6KTL-V3/3PH 8.8KTL-V3/3PH 11KTL-V3/3PH 12KTL-V3



- » Maximum yield 98.5%
- » Dual input section with independent MPPTs
- » Updates and diagnostics via USB
- » 5 or 10 year ZCS warranty
- » "Zero Grid Feed-in" functionality
- » Possibility to manage reactive power
- » Wide operating input range from 140V to 1000V also suitable for small-sized string systems

FLOW CHART



TECHNICAL DATA	3PH 3.3KTL-V3	3PH 4.4KTL-V3	3PH 5.5KTL-V3	3PH 6.6KTL-V3	3PH 8.8KTL-V3	3PH 11KTL-V3	3PH 12KTL-V3
DC Input data							
Typical DC power*	3960 W	5280 W	6600 W	7920 W	10560 W	13200 W	14400 W
Maximum DC power per MPPT	3550W(320V-850V)	4500W(410V-850V)	5700W(520V-850V)	6250W(570V-850V)	6200W(560V-850V)		6850W(620V-850V)
No. of independent MPPTs / No. of strings per MPPT	2/1						2/(2/1)
Maximum DC input voltage	1100V						
Start-up voltage	160V						
Nominal DC input voltage	650V						
MPPT DC voltage range	140V-1000V						
DC voltage range at full load	160V-850V	190V-850V	240V-850V	290V-850V	380V-850V	420V-850V	420V-850V
Maximum input current per MPPT	13A/13A						26A/13A
Maximum absolute current per MPPT	18A/18A						36A/18A
AC Output data							
Rated AC power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W	12000 W
Maximum AC power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Maximum AC current per phase	4.8A	6.4A	8.0A	9.6A	12.8A	15.9A	17.4A
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	184V~276V (PH-N); 310V~480V (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-in adjustable from zero to nominal power value**						
Efficiency							
Maximum efficiency	98.4%						98.5%
Weighted efficiency (EURO)	97.5%						98%
MPPT efficiency	>99.9%						
Consumption at night	<1W						
Protections							
Internal interface protection	Yes						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 MOV: Type 2 Standard						
Standard							
EMC	EN 61000-6-1/2/3/4,						
Safety standard	IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC 62109-1/2						
Grid connection standard	Connection certificates and standards available on www.zcsazzurro.com						
Communication							
Communication interfaces	Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB						
General data							
Allowable ambient temperature range	-30°C...+60°C (power limit above 45°C)						
Topology	Transformerless						
Environmental protection class	IP65						
Allowable relative humidity range	0%.....95% non-condensing						
Maximum operating altitude	4000m						
Noise level	< 40dB @ 1mt						
Weight	17Kg					18Kg	
Cooling	Natural convection						
Dimensions (H x L x D)	425mm x 513mm x 169mm						
Display	LCD						
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