

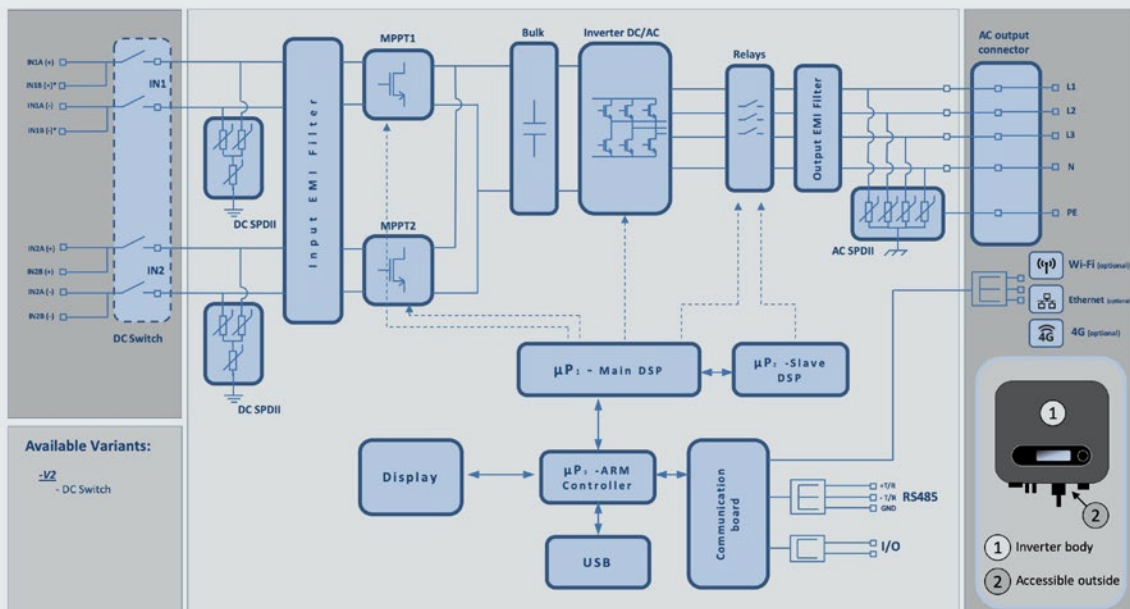
ZCS AZZURRO - THREE-PHASE STRING INVERTER

3PH 15000TL-V3/3PH 17000TL-V3/3PH 20000TL-V3/3PH 22000TL-V3/3PH 24000TL-V3



- » Maximum yield 98.6%
- » 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 15000TL-V3	3PH 17000TL-V3	3PH 20000TL-V3	3PH 22000TL-V3	3PH 24000TL-V3
DC Input data					
Typical DC power*	18000 W	20400 W	24000 W	26400 W	28800 W
Maximum DC power for each MPPT	10000 W	12000 W	12000 W	15000 W	15000 W
No. of independent MPPTs / No. of strings per MPPT	2/2				
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	420V-850V	450V-850V	480V-850V	510V-850V	540V-850V
Maximum input current for each MPPT	26A/26A				
Maximum absolute current for each MPPT	36A/36A				
AC Output data					
Rated AC power	15000 W	17000 W	20000 W	22000 W	24000 W
Maximum AC power	16500VA	18700VA	22000VA	24200VA	26400VA
Maximum AC current per phase	23.9A	27.1A	31.9A	35.1A	38.3
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); 320V~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	98.6%				
Weighted efficiency (EURO)	98.2%				
MPPT efficiency	>99.9%				
Consumption at night	<1W				
Protections					
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 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), Bluetooth				
General data					
Allowable ambient temperature range	-25°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	20Kg	22Kg		23Kg	
Cooling	Natural convection	Forced fan convection			
Dimensions (H x L x D)	425mm x 513mm x 189mm				
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