

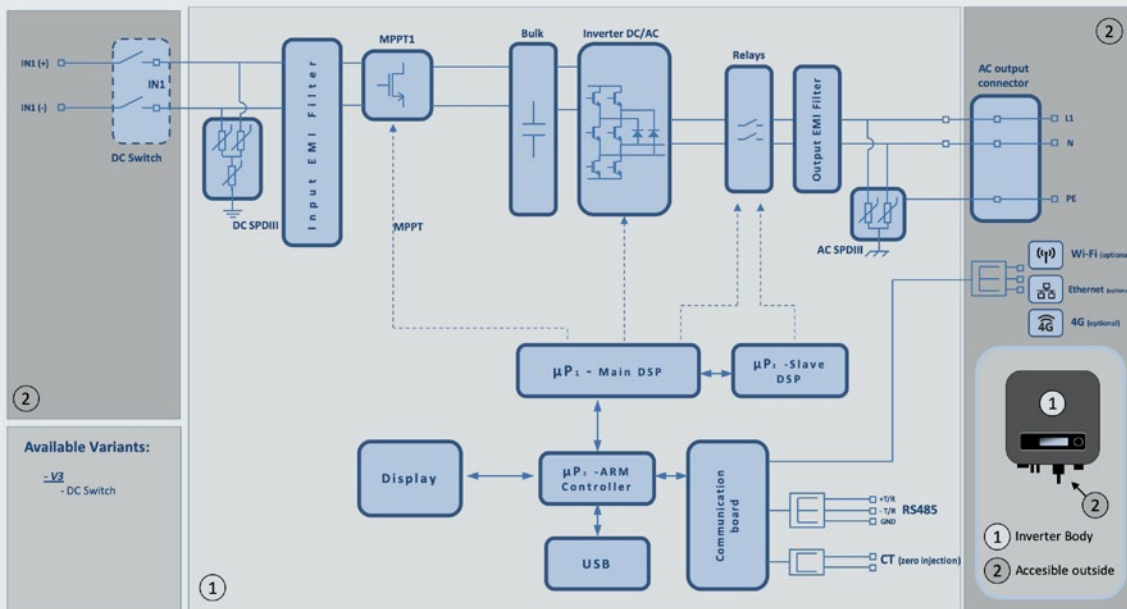
ZCS AZZURRO - SINGLE-PHASE STRING INVERTER

1PH 1100TL-V3/1PH 1600TL-V3/1PH 2200TL-V3/1PH 2700TL-V3/1PH 3000TL-V3/1PH 3300TL-V3



- » Maximum yield 97.7%
- » Single MPPT channel
- » Fast and safe installation with all required parts included
- » Ultra compact
- » 5 or 10 year ZCS warranty
- » Wide input operating range from 50V to 550V

FLOW CHART



TECHNICAL DATA	1PH 1100TL-V3	1PH 1600TL-V3	1PH 2200TL-V3	1PH 2700TL-V3	1PH 3000TL-V3	1PH 3300TL-V3
DC Input data						
Typical DC power*	1210 W	1760 W	2420 W	2970 W	3300 W	3630 W
No. of independent MPPTs / No. of strings per MPPT	1/1					
Maximum DC input voltage	500V			550V		
Start-up voltage	70V					
Nominal DC input voltage	360V					
MPPT DC voltage range	50V-500V			50V-550V		
DC voltage range at full load	110V-450V	150V-450V	200V-450V	250V-500V	275V-500V	300V-500V
Maximum input current for each MPPT	12A					
Maximum absolute current for each MPPT	15A					
AC Output data						
Rated AC power	1100 W	1600 W	2200 W	2700 W	3000 W	3300 W
Maximum AC power	1100VA	1600VA	2200VA	2700VA	3000VA	3300VA
Maximum AC current	5.3A	7.7A	10.6A	13A	14.5A	16A
Connection type/Rated grid voltage	Single-phase L/N/PE / 220V, 230V, 240V					
Grid voltage range	180V~276V (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	97.5%			97.7%		
Weighted efficiency (EURO)	96.9%			97.2%		
MPPT efficiency	>99.9%					
Consumption at night	<1W					
Protections						
Internal interface protection	Yes					
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 3 Standard					
Standard						
EMC	EN 61000-6-1/3, EN 61000-3-2/3					
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					
Additional inputs or connections	Input for current sensor connection					
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	< 25dB @ 1mt					
Weight	5.5 Kg			6.3 Kg		
Cooling	Natural convection					
Dimensions (H x W x D)	303mm x 260.5mm x 118mm			321mm x 260mm x 131.5mm		
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 connecting a current sensor (ZST-ACC-TA)