

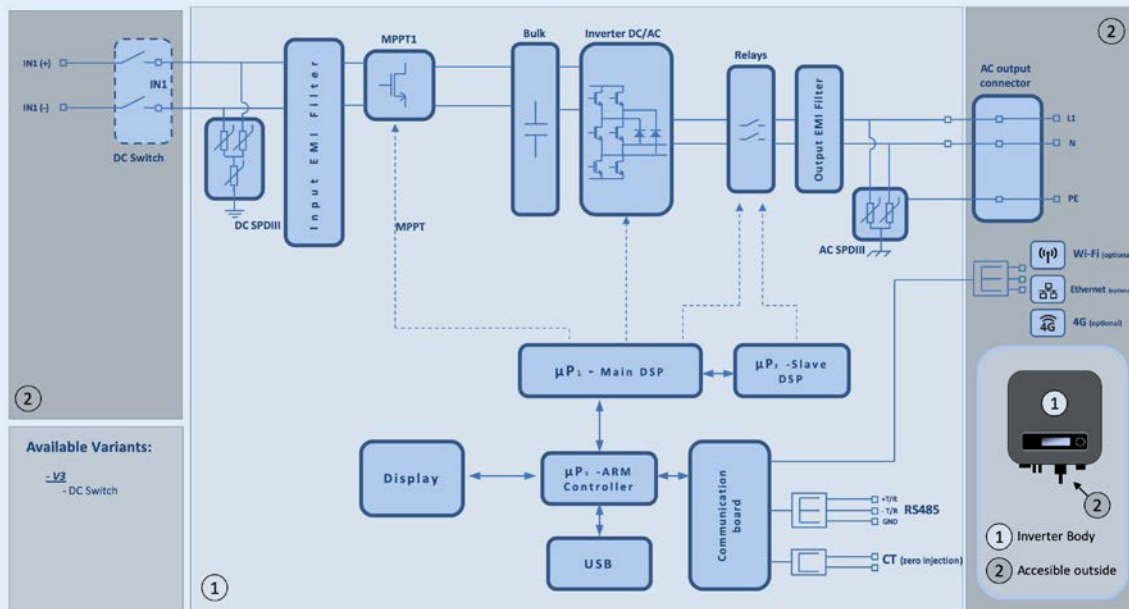
1PH 1100TL-V3/1PH 3300TL-V3

Single-phase string inverter



- » 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

BLOCK DIAGRAM



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*	1210W	1760W	2420W	2970W	3300W	3630W
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	1100W	1600W	2200W	2700W	3000W	3300W
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 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 at 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				Forced fan convection		
Dimensions (H x L x D)	303mmx260.5mmx118mm			321mmx260mmx131.5mm		
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 connecting a current sensor (ZST-ACC-TA) or using a specific meter

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