

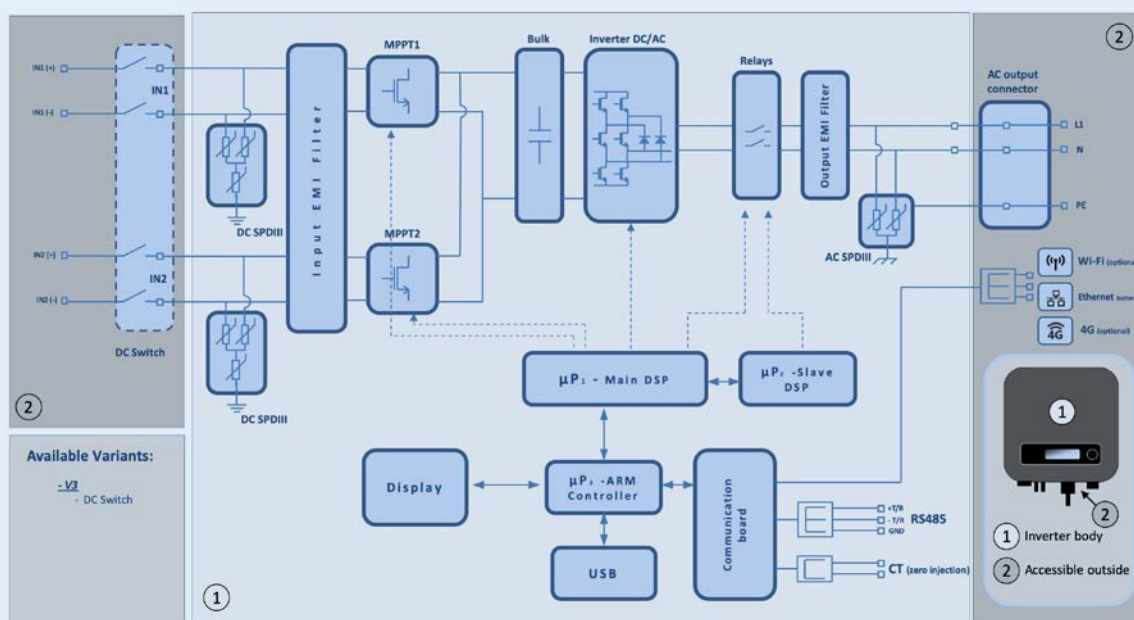
1PH 3000TLM-V3/1PH 6000TLM-V3

Single-phase string inverter



- » Maximum yield 98.4%
- » Dual MPPT channel
- » Fast and safe installation with all required parts included
- » Ultra compact
- » 5 or 10 year ZCS warranty
- » Wide input operating range from 80V to 550V

BLOCK DIAGRAM



TECHNICAL DATA	1PH 3000-TLM-V3	1PH 3680-TLM-V3	1PH 4000-TLM-V3	1PH 4600-TLM-V3	1PH 5000-TLM-V3	1PH 6000-TLM-V3
DC Input data						
Typical DC power*	3300W	4048W	4400W	5060W	5500W	6600W
Maximum power for channel	3000W (200V-500V)		3500W (230V-500V)		3750W (250V-500V)	4500W (300V-500V)
No. of independent MPPTs / No. of strings per MPPT			2/1			
Maximum DC input voltage			600V			
Start-up voltage			90V			
Nominal DC input voltage			380V			
MPPT DC voltage range			80V-550V			
DC voltage range at full load	200V-500V				210V-500V	260V-500V
Maximum input current for each MPPT			15A/15A			
Maximum absolute current for each MPPT			22.5A/22.5A			
AC Output data						
Rated AC power	3000W	3680W	4000W	4600W	5000W	6000W
Maximum AC power	3300VA	3680VA	4400VA	4600VA	5500VA	6600VA
Maximum AC current	15A	16A	20A	23A	25A	29A
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	98.2%				98.4%	
Weighted efficiency (EURO)	97.3%				97.5%	
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 61000-6-2/3, EN 61000-3-2/3/11/12			
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, Bluetooth			
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	9.2 kg				10 kg	
Cooling			Natural convection			
Dimensions (H x L x D)			349mmx344mmx164mm			
Data monitoring			LCD Display + APP			
Warranty			5 or 10 years (NB: the extended warranty can be obtained by registering on th 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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