

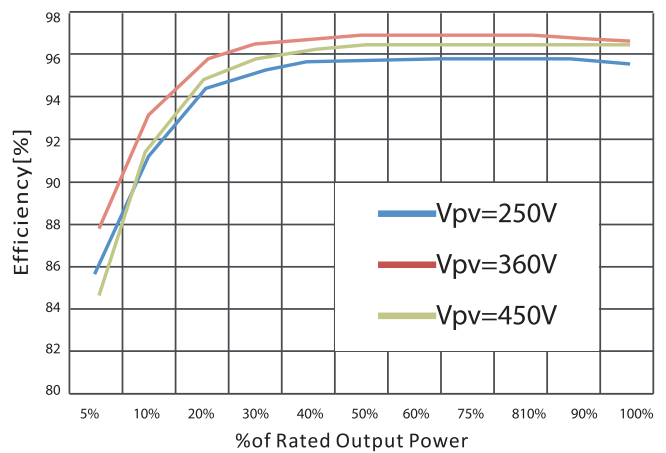
AZZURRO - SINGLE-PHASE STRING INVERTER PLUS SERIES

1100TL/1600TL/2200TL
2700TL/3000TL

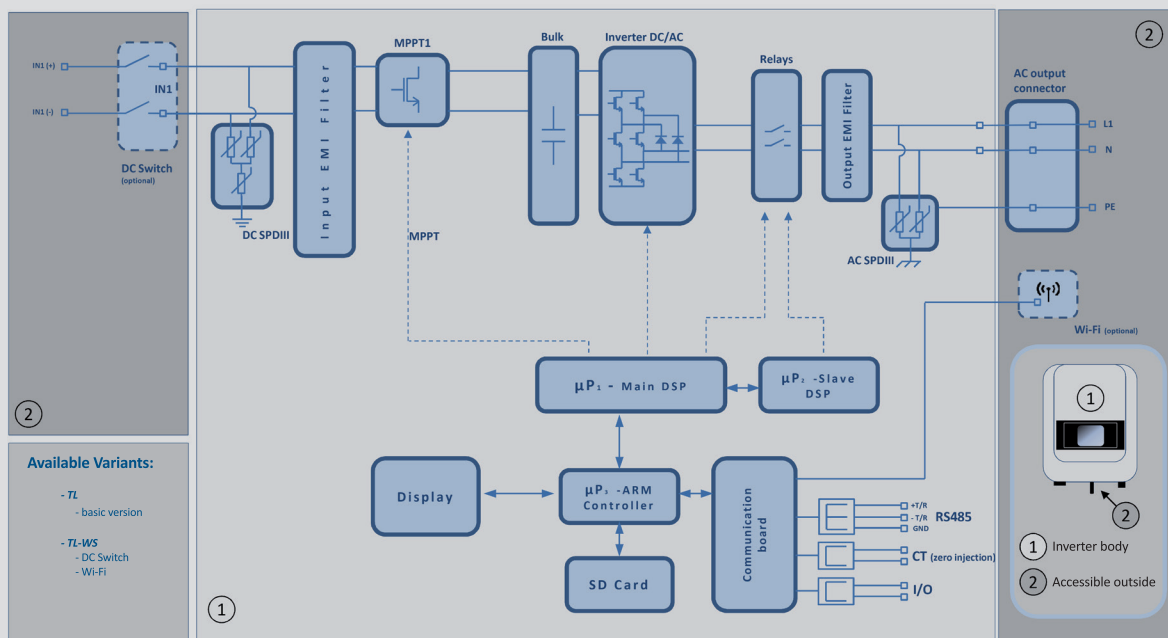


- Maximum performance 97.2%
- Single MPPT channel
- Fast and safe installation with all required parts included
- 4-inch LCD graphic display
- 5 or 10 year ZCS warranty
- Wide input operating range from 90V to 550V

EFFICIENCY CURVE



FLOW CHART



TECHNICAL SPECIFICATIONS	1100TL	1600TL	2200TL	2700TL	3000TL
DC Input data					
Maximum DC Power	1200W	1800W	2400W	2900W	3300W
No. of independent MPPTs / No. of strings per MPPT	1/1				
Maximum DC input voltage	450V		500V		
Start-up voltage	100V		120V		
Nominal DC input voltage	360V				
MPPT DC voltage range	80V-450V		100V-500V		
DC voltage range at full load	110V-450V	165V-450V	170V-500V	200V-500V	
Maximum input current for each MPPT	10A		13A	13.5A	15A
Maximum absolute current for each MPPT	12.5A		16.5A	17A	19A
AC Output data					
Rated AC power	1000W	1550W	2100W	2600W	3000W
Maximum AC power	1000VA	1550VA	2100VA	2600VA	3000VA
Maximum AC current	4.5A	7A	9.5A	11.5A	13A
Connection type/Rated grid voltage	Single-phase L/N/PE / 220V, 230V, 240V				
Grid voltage range	180V~270V (according to the local grid standards)				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45Hz~53Hz / 57Hz~63Hz (according to the local grid standards)				
Total harmonic distortion	<3%				
Power factor	1 (Programmable +/-0.8)				
Active power adjustable range	0~100%				
Grid feed limit	Feed adjustable from zero to nominal power value*				
Efficiency					
Maximum efficiency	97%		97.1%		97.2%
Weighted efficiency (EURO)	95.2%	95.9%	96.1%	96.4%	96.5%
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	Optional (present in models - WS)				
Overheating protection	Yes				
Overvoltage category/Protective class	Overvoltage Category III / Protective class I				
Integrated dischargers	AC/DC MOV: Type 3 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	AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, EN50438, G83/2, C10/11, RD1699, CEI 0-21				
Communication					
Communication interfaces	Wi-Fi (only models -WS), RS485 (proprietary protocol), SD card				
Additional inputs or connections	Input for current sensor connection				
Data storage on SD	25 years				
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	2000m				
Noise level	< 25dB @ 1mt				
Weight	11kg		12kg		
Cooling	Natural convection				
Dimensions (H x L x D)	405mm x 314mm x 135mm				
Display	LCD				
Warranty	5 or 10 years				

* Possible by connecting a current sensor (ZST-ACC-TA)









 CE, CEI 0-21, CQC, IEC, VDE-AR-N4105/VDE-0126, EMC, C10/11, EN50438, RD1669