



AZZURRO - SINGLE PHASE STRING INVERTERS

3KTLM-L/3.6KTLM-L/4KTLM-L
4.6KTLM-L/5KTLM-L/6KTLM-L

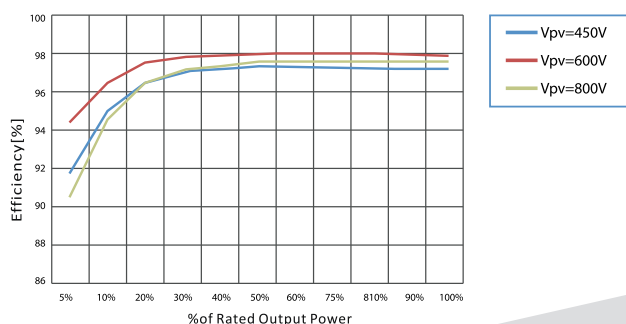
THE SMART SOLUTION FOR A GREEN WORD

The LITE series single-phase ZCS Azzurro inverters are the ideal and more efficient solution for residential or commercial type PV system. They are available in version from 3 to 6kw, and are compact, easy to manage, simple to install and all equipped with double MPPT, for a better energy performance.

Their wide input range makes them easy to configure and are suitable for all requirements on both new and retrofit installations on existing system.

The alphanumeric display provides a quickly viewing of all data and the WiFi connection provides zero cost remote monitoring.

EFFICIENCY CURVE



AZZURRO ZCS TECHNOLOGY

- Performance optimisation
- WiFi integration on the ZCS platform for stable, effective and intelligent connectivity

MAXIMUM ENERGY EFFICIENCY

- Maximum performance 97,8
- Stable efficiency in all working conditions
- Rapid and accurate MPPT algorithm
- Dual input section with independent MPPT

A FLEXIBLE, ECONOMIC AND EASY INSTALLATION SOLUTION

- IP65 Protection rating
- "Plug & Play" AC and DC side connections
- Wireless communication with integrated Web Server
- Alphanumeric Display
- Standard or Fast Enel Autotest version
- Updates and diagnostic through SD card

RELIABILITY, STURDINESS AND FLEXIBILITY

- External enclosure in rust-proof, corrosion-proof and UV-ray proof aluminum
 - Natural ventilation cooling
- Fast and flexible management of operating parameters
- Simple and user-friendly monitoring
 - 5 years ZCS warranty

INTELLIGENT GRID MANAGEMENT

- Dynamic management of delivery to the grid
 - "Zero Delivery" grid function*
- Remot control over deliverable active/reactive output limit

IDEAL FOR RETROFIT OPTIONS


- Wide operating input range from 160V to 520V
 - Compact size
- Simple and user- friendly installation and configuration
 - Dual MPPT channel

*Possible through current sensor (ZST-ACC-TA)



ZUCCHETTI
Centro Sistemi



TECHNICAL SPECIFICATIONS	3KTL-X	3.6KTL-X	4KTL-X	4.6KTL-X	5KTL-X	6KTL-X
Input (DC)						
Rated input DC power	3500W	4000W	4400W	5000W	5500W	6600W
Maximum DC power for each MPPT	2000W (160V-520V)	2400W (180V-520V)	2600W (200V-520V)	3000W (250V-520V)		3500W (300V-520V)
Number of independent MPPTs	2					
Number of DC inputs	1 for each MPPT					
Maximum Input Voltage	600V					
Activation voltage	120V					
Rated input voltage	360V					
MPPT DC voltage range	90V-580V					
DC voltage range at full load	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V
Max input current for MPPT	11A/11A					
Short circuit Current for each MPPT	12A	14A	16A		18A	
Output (AC)						
Nominal AC power (@230V,50Hz)	3000W	3680W	4000W	4600W	5000W	6000W
Maximum AC Power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
AC rated voltage	L/N/PE,220,230,240V					
Rated AC voltage range	180V-276V (According to the local network standard)					
Mains frequency	47~55 / 54~66 Hz (According to the local network standard)					
Active power Adjustment range	0~100					
Maximum AC current	13.7A	16.8A	18.2A	21A	22.8A	27.3A
Total current harmonic distortion	<3					
Power factor	1 (adjustable +/- 0.8)					
Input limitation on the network	Input adjustable from zero to the rated value					
Efficiency						
Maximum Efficiency	97,6				97,8	
Weighted efficiency(EURO)	97,2				97,3	
Night consumption	<1W					
Start Power Threshold	50W					
MPPT efficiency	>99.5					
Protection						
Reverse polarity Protection	Yes					
DC Switch	Optional					
Protection Class/Surge Category	1/111					
Input / Output MOV (III)	Yes					
Safety Protection	Anti islanding, RCMU, Ground fault monitoring					
Safety Certificates	CE, IEC 62109-1, IEC 62109-2, IEC 62116, IEC 61727, IEC 60068(1,2,14,30), IEC61683  AS 4777, AS3100, VDE-AR-N 4105, G83/G59, CE1 0-21, C10/11					
Mains certificates						
Power Management Unit	According to network requirements and certifications					
Standard Communication Mode	Wifi/GPRS (optional) + RS485 + SD card					
Data Storage	25 years					
General information						
Ambient Temperatures	-25°C...+60°C					
Insulation level	Transformerless					
Protection rating	IP65					
Relative umidity	0...95 Without Condensation					
Maximum operating altitude	4000m					
Noise level	<25db@1m					
Weight	11,5kg					
Cooling system	Natural					
Dimensions (H x W x D)	405*315*135mm					
Warranty	5 years					