

3PH 15KTL-V3/3PH 24KTL-V3

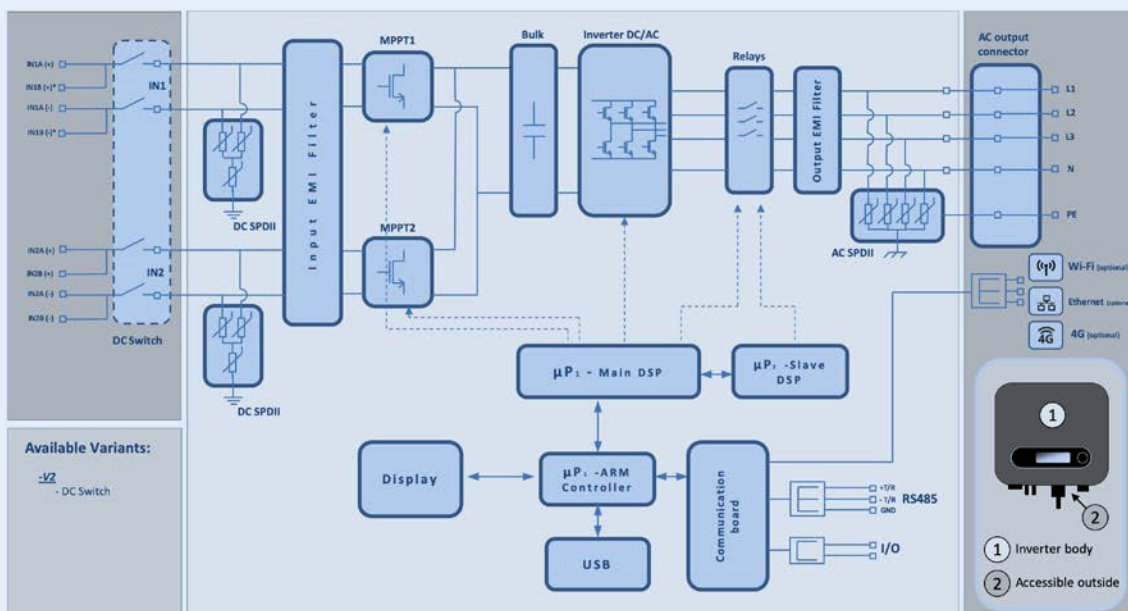
Three-phase string inverter



- » Maximum yield 98.6%
- » Dual input section with independent MPPTs
- » Updates and diagnostics via USB
- » 5 or 10 year ZCS warranty
- » “Zero Grid Feed-in” functionality
- » Possibility to manage reactive power
- » Wide operating input range from 140V to 1000V also suitable for small-sized string systems



BLOCK DIAGRAM



TECHNICAL DATA	3PH 15KTL-V3	3PH 17KTL-V3	3PH 20KTL-V3	3PH 22KTL-V3	3PH 24KTL-V3
DC Input data					
Typical DC power*	18000W	20400W	24000W	26400W	28800W
Maximum DC power for each MPPT	10000W (400V-850V)	12000W (460V-850V)	12000W (460V-850V)	15000W (580V-850V)	15000W (580V-850V)
No. of independent MPPTs / No. of strings per MPPT	2/2				
Maximum DC input voltage	1100V				
Start-up voltage	160V				
Nominal DC input voltage	650V				
MPPT DC voltage range	140V-1000V				
DC voltage range at full load	300V-850V	340V-850V	400V-850V	440V-850V	480V-850V
Maximum input current for each MPPT	26A/26A				
Maximum absolute current for each MPPT	36A/36A				
AC Output data					
Rated AC power	15000W	17000W	20000W	22000W	24000W
Maximum AC power	16500VA	18700VA	22000VA	24200VA	26400VA
Maximum AC current per phase	23.9A	27.1A	31.9A	35.1A	38.3
Connection type/Rated grid voltage	Three-phase 3PH/N/PE 220V/230V/240V (PH-N); 380V/400V/415V (PH-PH) o Three-phase 3PH/PE 380V/400V/415V (PH-PH)				
Grid voltage range	184V~276V (PH-N); 320V~480V (PH-PH) (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	98.6%				
Weighted efficiency (EURO)	98.2%				
MPPT efficiency	>99.9%				
Consumption at night	<1W				
Protections					
Internal interface protection	No				
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 2 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	Connection certificates and standards available at www.zcsazurro.com				
Communication					
Communication interfaces	Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, Bluetooth				
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	< 40dB @ 1mt				
Weight	20 kg	22 kg		23 kg	
Cooling	Natural convection		Forced fan convection		
Dimensions (H x L x D)	430mmx520mmx189mm				
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 zcsazurro.com website)				

* The typical DC power does not represent a maximum applicable power limit. The online configurator available at www.zcsazurro.com will provide any applicable configurations.

** Possible by using a specific meter