

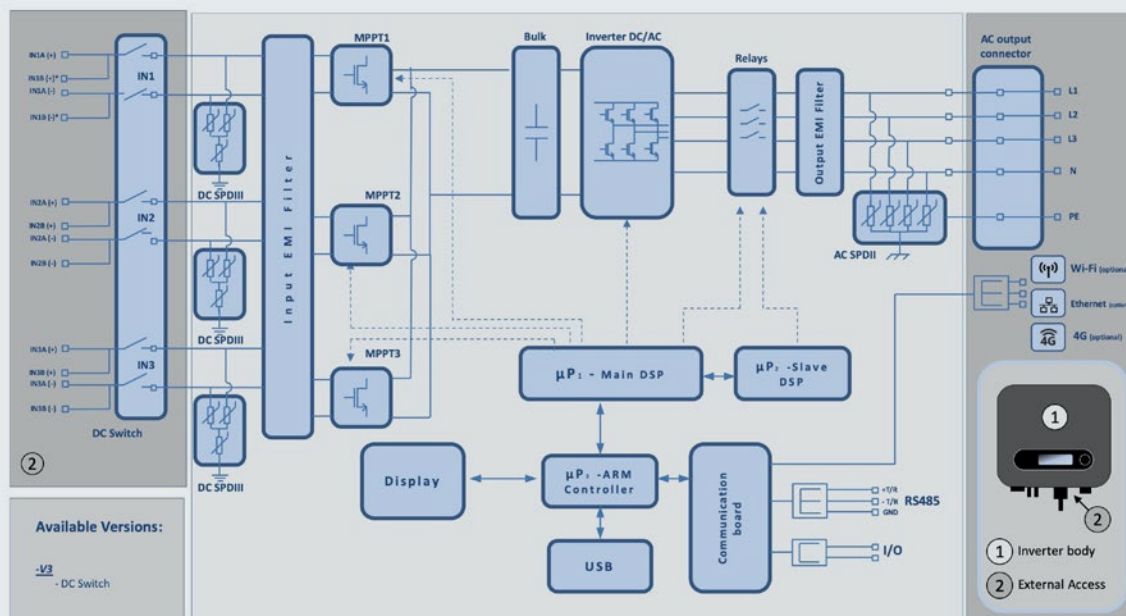
ZCS AZZURRO - THREE-PHASE STRING INVERTER

3PH 25KTL-V3/3PH 30KTL-V3/3PH 33KTL-V3/3PH 36KTL-V3/3PH 40KTL-V3/3PH 45KTL-V3/3PH 50KTL-V3



- » Maximum yield 98.8%
- » Up to 4 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 180V to 1000V

BLOCK DIAGRAM



TECHNICAL DATA								3PH 25KTL-V3	3PH 30KTL-V3	3PH 33KTL-V3	3PH 36KTL-V3	3PH 40KTL-V3	3PH 45KTL-V3	3PH 50KTL-V3
DC Input data														
Typical DC power*	30000W		36000W		39600W		43200W		48000W		54000W		60000W	
Maximum DC power for each MPPT	25000(625V-850V)													
No. of independent MPPTs/ N.o of strings per MPPT	3/2						4/2							
Maximum DC input voltage	1100V													
Start-up voltage	200V													
Nominal DC input voltage	620V													
MPPT DC voltage range	180V-1000V													
DC voltage range at full load	480V-850V			510V-850V		540V-850V		480V-850V		510V-850V		540V-850V		
Maximum input current for each MPPT	40A/40A/40A						40A/40A/40A/40A							
Maximum absolute current for each MPPT	50A/50A/50A						50A/50A/50A/50A							
AC Output data														
Rated AC power	25000W		30000W		33000W		36000W		40000W		45000W		50000W	
Maximum AC power	28000VA		34000VA		37000W		40000W		44000W		49500W		55000W	
Maximum AC current per phase	42.4A		51.5A		56A		60.6A		66.7A		75.8A		83.3A	
Connection type/Rated grid voltage	Three-phase 3PH/N/PE 220V/230V/240V (PH-N); 380V/400V/415V (PH-PH) or Three- phase 3PH/PE 380V/400V/415V (PH-PH)													
Grid voltage range	184V~276V (PH-N); 310V~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 adjustable from zero to nominal power value**													
Efficiency														
Maximum efficiency	98.6%						98.8%							
Weighted efficiency (EURO)	98.2%													
MPPT efficiency	>99.9%													
Consumption at night	<3W													
Protection														
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 connectio standard	Connection certificates and standards available at www.zcsazzurro.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	< 60dB @ 1mt													
Weight	36 kg						37 kg							
Cooling	Forced fan convection													
Dimensions (H x L x D)	480mmx585mmx220mm													
Display	LCD													
Warranty	5 or 10 years													

* 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 using specific meter