

ZCS AZZURRO - THREE-PHASE STRING INVERTER

3PH 60KTL-V3 / 3PH 80KTL-V3



- » Maximum yield 98.7%
- » 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



TECHNICAL DATA	3PH 60KTL-V3	3PH 80JKTL-V3
DC Input data		
Typical DC power*	72000W	96000W
Maximum DC power for each MPPT	18000W (550V-850V)	24000W (550V-850V)
No. of independent MPPTs/N.o of strings per MPPT	6/2	
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	550V-850V	
Maximum input current for each MPPT	32A	40A
Maximum absolute current for each MPPT	50A	60A
AC Output data		
Rated AC power	60kW	80kW
Maximum AC power	66kVA	88kVA
Maximum AC current per phase	100A	133.3A
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 adjustable from zero to nominal power value**	
Efficiency		
Maximum efficiency	98.7%	
Weighted efficiency (EURO)	98.2%	
MPPT efficiency	>99.9%	
Consumption at night	<2W	
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: Type 2 standard	
Standard		
EMC	EN 61000-6-2/4, EN 61000-3-11/12	
Safety standard	IEC 62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)	
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	IP66	
Allowable relative humidity range	0%.....95% non-condensing	
Maximum operating altitude	4000m	
Noise level	< 60dB @ 1mt	
Weight	50 kg	
Cooling	Forced fan convection	
Dimensions (H x L x D)	561mmx687mmx275mm	
Display	Led indicators, Bluetooth + app	
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