

AZZURRO - THREE-PHASE STRING INVERTER

80KTL-LV/100KTL-LV/110KTL-LV



- Maximum performance up 98,7%
- Degree of Protection IP66
- Updates and diagnostics through USB
- Forced convection with speed controlled cooling
- Class II overvoltage protection devices (AC and DC)
- 10 years ZCS warranty
- Wide operating input range from 180V to 1000V for a better configuration flexibility
- Up to 10 independent MPPT channels



TECHNICAL DATA	3PH 80KTL-LV	3PH 100KTL-LV	3PH 110KTL-LV
DC input			
Typical DC power *	96000W	120000W	132000W
Maximum DC power on each MPPT	13000W		
Independent MPPTs/Strings each MPPT	8/2	10/2	
Maximum DC voltage	1100V		
Start-up voltage	200V		
Nominal DC voltage	600V		
MPPT range in DC	180V-1000V		
Full power range in DC	500V-850V		
Maximum DC input current each MPPT	26A		
Maximum absolute DC input current each MPPT	40A		
AC output			
Nominal AC Power	80kW	100kW	110kW
Maximum AC Power	88kVA	110kVA	121kVA
Maximum AC current each phase	128A	160A	175A
Type of connection/Nominal AC 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)		
AC voltage range	184V~276V (PH-N); 320V~480V (PH-PH) (according to local standards)		
Nominal AC frequency	50Hz/60Hz		
AC frequency reange	45Hz~55Hz / 54Hz~66Hz (according to local standards)		
Total Harmonic Distortion (THD)	<3%		
Power factor	1 (set +/-0.8)		
Active power adjustability range	0~100%		
Active power grid injection	Possible to adjust from 0 to nominal AC power **		
Efficiency			
Maximum Efficiency	98.6%	98.7%	98.75%
Euro efficiency	98.2%	98.3%	98.4%
Efficiency MPPT	>99.9%		
Night time consumption	<1W		
Protections			
Internal interface protection	No		
Safety protections	Anti islanding, RCMU, Ground Fault Monitoring		
DC reverse polarity protection	Yes		
DC switch	Integrated		
Overheating protection	Yes		
Overvoltage category/Protection class	Overvoltage Category III / Protective class I		
Integrated dischargers	AC/DC: Type 2 standard		
Standards			
EMC	EN 61000-6-2/4, EN 61000-3-11/12		
Safety standards	IEC 62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)		
Grid standards	Grid standards and certificates available on www.zcsazzurro.com		
Communication			
Interfaces	Wi-Fi/4G/Ethernet (optionals), RS485 (proprietary protocol), USB		
Additional I/O	I/O inputs for Antireverse power controller device		
Environmental data			
Temperature working range	-30°C...+60°C (power derating over 45°C)		
Topology	Transformerless		
Environmental protection degree	IP66		
Humidity range	0%.....100%		
Maximum operative altitude	4000m		
Acoustic noise	< 60dB @ 1mt		
Weight	72kg	84kg	85kg
Cooling system	FANs cooled		
Dimensions (H*L*P)	1051mm*660mm*340 mm		
Display	LED indicators, bluetooth + app		
Warranty	10 years		

* Typical Dc power is not an absolute maximum rating. Online configurator available on www.zcsazzurro.com will guide the user on valid and possible configurations

** Possible using Antireverse Power Controller (ZSM-ZEROINJ)