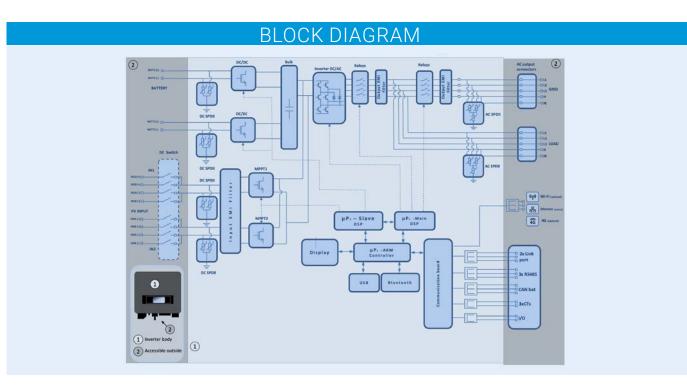
3PH HYD 10000 ZSS/3PH HYD 20000 ZSS

Three-phase hybrid inverter



- » On-board Energy Meter
- » Parallel-ready
- » Possibility of operation in zero grid feed-in mode
- » Unit compatible with high voltage lithium battery (180-750V)
- Stand-Alone support mode guarantees continuity of operation and "island" operation, both from the photovoltaic source and battery in the event of power failure.



TECHNICAL DATA	3PH HYD10000 ZSS	3PH HYD15000 ZSS	3PH HYD20000 ZSS	
DC input data (photovoltaic)				
Typical DC power*	15000W	22500W	30000W	
Maximum DC power for each MPPT No. of independent MPPTs / No. of strings per MPPT	7500W (300V-850V)	11250W (450V-850V) 2/2	15000W (600V-850V)	
Maximum input voltage		1000V		
Start-up voltage		200V		
Rated Input voltage		600V		
MPPT DC voltage range		180V-960V		
DC voltage range at full load Maximum input current for each MPPT	220V-850V	350V-850V 25A/25A	450V-850V	
Maximum absolute current for each MPPT		30A/30A		
Battery connection data				
Type of compatible battery		Lithium-ion (supplied by Zucchetti)		
Allowable voltage range Number of independent battery channels	2 HV battory	180V-750V channels (configurable as independent	or in parallal)	
Maximum charge/discharge power	10000W	15000W	20000W	
Allowable temperature range**		-10°C/+50°C	2000011	
Maximum charge current per battery channel		25A (35A of peak for 60s)		
Maximum discharge current per battery channel		25A (35A of peak for 60s)		
Charge curve Depth of Discharge (DoD)		Managed by the BMS 0%-90% (programmable)		
AC output (grid side)				
Rated power	10000W	15000W	20000W	
Maximum Power	11000VA	16500VA	22000VA	
Maximum current	16A	24A Three-phase 3/N/PE, 220/380, 230/400	32A	
Connection type/Rated voltage AC voltage range	18/	1 hree-phase 3/N/PE, 220/380, 230/400 4V~276V (according to the local standa		
Rated frequency	10.	50Hz/60Hz		
AC frequency range	45Hz~55H	Iz / 55Hz~65Hz (according to the local	standards)	
Total harmonic distortion		<3%		
Power factor Grid feed-in limit		1 default (programmable +/- 0.8) Programmable from display		
EPS Output (Emergency Power Supply)		Frogrammable normulsplay		
Power supplied in EPS mode***	10000W	15000W	20000W	
Apparent peak power in EPS mode***	20000VA per 60s	22000VA per 60s	22000VA per 60s	
EPS output voltage and frequency		Three-phase 230V/400V 50Hz		
Current supplied in EPS mode (peak) Total harmonic distortion	16A (30A for 60s)	24A (32A for 60s) 3%	32A (33A for 60s)	
Switch time		<20ms		
Efficiency		\$20113		
Maximum efficiency		98.2%		
Weighted efficiency (EURO)		97.7%		
MPPT efficiency Maximum battery charge/discharge efficiency		99.9% 97.8%		
Consumption in stand-by		<15W		
Protections				
Internal interface protection	Yes	No		
Safety protections	Anti-islanding, RCMU, Ground Fault Monitoring			
Reverse polarity protection DC DC circuit breaker	Yes integrated			
Overheating protection	Yes			
Overvoltage category/Protection class	Overvoltage Category III / Protection class I			
Integrated dischargers		AC/DC MOV: Type 2 standard		
Output overcurrent protection		Yes		
Battery soft start Standard		Yes		
EMC		EN61000-1, EN61000-3		
Safety standard		2109-1, IEC62109-2, NB-T32004/IEC62		
Grid connection standard	Connection cert	ificates and standards available at www	.zcsazzurro.com	
Communication	Wi Ei/AC/Ethornat (antian - N	DC405 (proprietory protocol) LICD 044	120 (for botton, connection)	
Communication interfaces	wi-Fi/4G/Ethernet (optional)	RS485 (proprietary protocol), USB, CAN Bluetooth	v ∠.u (ior battery connection),	
Other inputs	RS485 line for external meters (up to 4 meters can be connected), 6 digital inputs (5V TTL), connection for			
		direct sensors (CT)		
General data Allowable ambient temperature range		30°C+60°C (power limitation over 45°	C)	
Topology		Transformerless		
Environmental protection class		IP65		
Allowable relative humidity range	0~100%			
Maximum operating altitude	4000m			
Noise lovel	<45 dB @ 1m 37kg			
		Forced convection		
Weight		Forced convection		
Weight Cooling Dimensions (H x L x D)		515mmx571.4mmx264.1mm		
Weight Cooling Dimensions (H x L x D)		515mmx571.4mmx264.1mm LCD Display + APP		
Noise level Weight Cooling Dimensions (H x L x D) Data monitoring Warranty	(A ID: 4L	515mmx571.4mmx264.1mm	oring on the	

* 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.
 ** Standard value for lithium batteries; maximum operating range between +10°C and +40°C
 *** Power output in EPS mode depends on the number and type of batteries, and the status of the system (e.g. residual capacity, temperature)