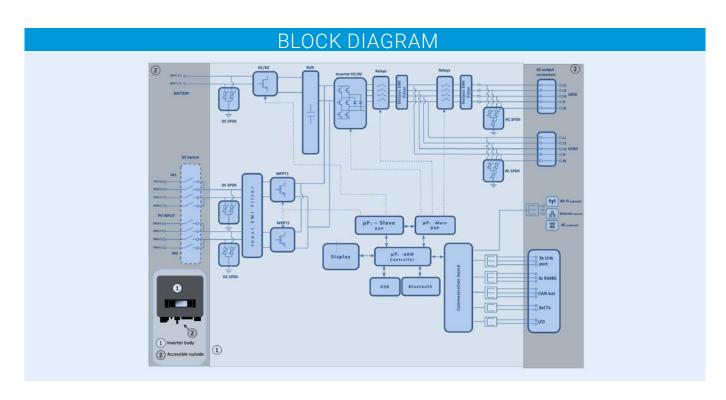
3PH HYD 5000 ZSS/3PH HYD 8000 ZSS

Three-phase hybrid inverter



- » 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 HYD5000 ZSS	3PH HYD6000 ZSS	3PH HYD8000 ZSS
DC input data (photovoltaic)			
Typical DC power*	7500W	9000W	12000W
Maximum DC power for each MPPT	6000W (480V-850V)	6600W (53	30V-850V)
No. of independent MPPTs / No. of strings per MPPT		2/1	
Maximum input voltage		1000V 200V	
Start-up voltage Rated Input voltage		200V 600V	
MPPT DC voltage range		180V-960V	
DC voltage range at full load	250V-850V	320V-850V	360V-850V
Maximum input current for each MPPT	2304-6304	12.5A/12.5A	300 4-830 4
Maximum absolute current for each MPPT		15A/15A	
Battery connection data		10/1/10/1	
Type of compatible battery		Lithium-ion (supplied by Zucchetti)	
Allowable voltage range		180V-750V	
Number of independent battery channels		1	
Maximum charge/discharge power	5000W	6000W	8000W
Allowable temperature range**		-10°C/+50°C	
Maximum charge current per battery channel		25A (40A of peak for 60s)	
Maximum discharge current per battery channel		25A (40A of peak for 60s)	
Charge curve		Managed by the BMS	
Pepth of Discharge (DoD)		0%-90% (programmable)	
AC output (grid side)		(
Rated power	5000W	6000W	8000W
Maximum Power	5500VA	6600VA	8800VA
Maximum current	8A	10A	13A
Connection type/Rated voltage		Three-phase 3/N/PE, 220/380, 230/4	
AC voltage range	18	4V~276V (according to the local stand	
Rated frequency	10	50Hz/60Hz	
AC frequency range	45Hz~55Hz / 55Hz~65Hz (according to the local standards)		
otal harmonic distortion	10112 001	<3%	ar etarraar ae)
Power factor		1 default (programmable +/- 0.8)	
Grid feed-in limit		programmable from display	
EPS Output (Emergency Power Supply)		programmable mem diopidy	
Power supplied in EPS mode***	5000W	6000W	8000W
Apparent peak power in EPS mode***	10000VA per 60s	12000VA per 60s	16000VA per 60s
EPS output voltage and frequency	10000 77 per 000	Trifase 230V/400V 50Hz	10000 V/ (pc) 000
Current supplied in EPS mode (peak)	8A (15A per 60s)	10A (18A per 60s)	13A (24A per 60s)
otal harmonic distortion	071 (1071 per 000)	3%	16/1 (2 // tper 666)
Switch time		<20ms	
Efficiency		<zuitis< td=""><td></td></zuitis<>	
Maximum efficiency		98.0%	
		97.5%	
Veighted efficiency (EURO)			
MPPT efficiency		99.9%	
Maximum battery charge/discharge efficiency		97.6%	
Consumption in stand-by		<15W	
		V	
nternal interface protection	A	Yes	
Safety protections	An	ti-islanding, RCMU, Ground Fault Moni	toring
Reverse polarity protection DC		Yes	
OC circuit breaker		Integrated	
Overheating protection		Yes	
Overvoltage category/Protection class	C	overvoltage Category III / Protection cla	assl
ntegrated dischargers		AC/DC MOV: Type 2 standard	
Output overcurrent protection		Yes	
Battery soft start		Yes	
Standard			
EMC		EN61000-1, EN61000-3	
Safety standard		52109-1, IEC62109-2, NB-T32004/IEC6	
Grid connection standard	Connection cert	tificates and standards available at ww	vw.zcsazzurro.com
Communication			
Communication interfesses	Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, C	AN 2.0 (for battery connectio
Communication interfaces		Bluetooth	
201	RS485 line for external met	ers up to 4 meters can be connected)	, 6 digital input (5V TTL), cor
Other inputs	The for oxiding the	nection for direct sensors (CT)	,
General data			
Allowable ambient temperature range		-30°C+60°C (limitation above 45°C	`)
Allowable ambient temperature range Fopology			,)
		Transformerless	
Environmental protection class		IP65	
Allowable relative humidity range	0~100%		
Maximum operating altitude	4000m		
Noise level		<45 dB @ 1m	
Veight		33kg	
Cooling	Natural convection		
	515mmx571.4mmx264.1mm		
Dimensions (H x L x D)			
Dimensions (H x L x D) Data monitoring		LCD Display + APP the extended warranty can be obtained	

^{*} 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)