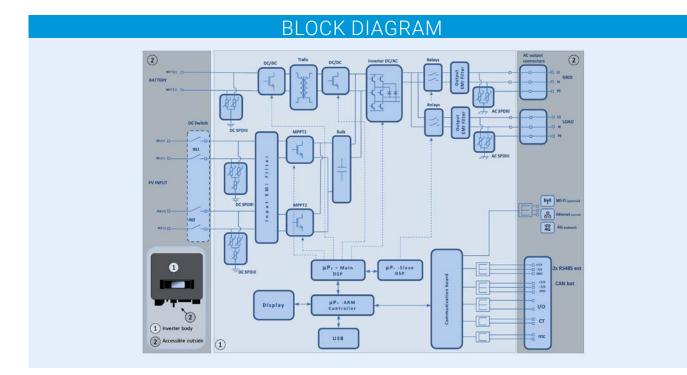
1PH HYD 3000 ZSS HP/1PH HYD 6000 ZSS HP

Hp series single-phase hybrid inverter



- » Possibility of operation in zero grid feed-in mode
- » Unit compatible with 48V lithium batteries
- Stand-Alone support mode guarantees continuity of operation and "island" operation, both from the photovoltaic source and battery in the event of power failure.
- » Maximum charge/discharge power 5000W



TECHNICAL DATA	1PH HYD 3000 ZSS HP	1PH HYD 3600 ZSS HP	1PH HYD 4000 ZSS HP	1PH HYD 4600 ZSS HP	1PH HYD 5000 ZSS HP	1PH HYD 6000 ZSS HP
DC input data (photovoltaic)						
Typical DC power*	4500W	5400W	6000W	6900	7500W	9000W
Maximum DC power for each MPPT		3500W (2	270V-520V)	1	3750W (3	JUV-520V)
No. of independent MPPTs / No. of strings per MPPT Maximum input voltage			2/ 600			
Start-up voltage			100			
Rated Input voltage			360			
MPPT DC voltage range			90V-5			
DC voltage range at full load	160V-500V	180V-500V	200V-500V	230V-500V	250V-500V	300V-500V
Maximum input current for each MPPT			13A/			
Maximum absolute current for each MPPT	18A/18A					
Battery connection data						
Type of compatible battery	Lithium-ion (supplied by Zucchetti)					
Rated voltage			48			
Allowable voltage range	075014/	400014/	42V-	58V	500014/	
Maximum charge/discharge power**	3750W	4000W	4250W	5080	5000W	
Allowable temperature range***		004	-10°C/-	+50°C		
Maximum charge current	75A (programmable)	80A (programmable)	85A (programmable)	1	00A (programmable)
NALE IN THE REPORT OF	75A	80A	85A		004 (
Maximum discharge current	(programmable)	(programmable)	(programmable)		00A (programmable)
Charge curve			Managed b			
Depth of Discharge (DoD)			0%-90% (prog	grammable)		
AC output (grid side)	0.000					
Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Maximum Power	3300VA	3680VA	4400VA	4600VA	5500VA	6000VA
Maximum current	15A	16A	20A Cingle phase L (N)	20.9A	25 A	27.3A
Connection type/Rated voltage AC voltage range	Single-phase L/N/PE 220,230,240V 180V-276V (according to the local standards)					
Rated frequency		100	50Hz/		us)	
AC frequency range		44Hz-55H	z / 54Hz-66Hz (acco		andards)	
Total harmonic distortion		1112 0011	< 3		andardoj	
Power factor			1 default (prograi	mmable +/- 0.8)		
Grid feed-in limit			Programmable			
EPS Output (Emergency Power Supply)						
Maximum power supplied in EPS mode****	3000VA (3600VA	3680VA (4400VA	4000VA (4800VA	4600VA (5520VA	5000\/A (600	0VA per 60s)
Maximum power supplied in EF3 mode	per 60s)	per 60s)	per 60s)	per 60s)	3000 VA (000	ova per ous)
EPS output voltage and frequency	Single-phase 230V 50Hz/60Hz					
Current supplied in EPS mode	13.6A	16A	18.2A	20.9A	22	.7A
Total harmonic distortion			< 3			
Switch time			< 10	ms		
Efficiency Maximum efficiency		97.6%		07	8%	98.0%
Weighted efficiency (EURO)		97.2%				97.5%
MPPT efficiency	97.2% 97.3% 97.5% >99.9%					57.070
Maximum battery charge/discharge efficiency			94.6	5%		
Consumption in stand-by			< 10)W		
Protections						
Internal interface protection			Ye			
Safety protections	Anti-islanding, RCMU, Ground Fault Monitoring					
Reverse polarity protection DC	Yes					
DC circuit breaker			Integr			
Overheating protection	Yes Overveltage Category III / Distantion close I					
Overvoltage category/Protection class Integrated dischargers	Overvoltage Category III / Protection class I AC/DC MOV: Type 3 standard					
Battery soft start			AC/DC MOV. Ty Ye			
Standard			Te	0		
EMC		FI	N 61000-3-2/3/11/	12, EN 61000-6-2/3	3	
Safety standard			1727, IEC 61683, IE			
Grid connection standard			cates and standard			
Communication						
Communication interfaces	Wi-Fi/4G/E		485 (proprietary proto			Bluetooth
Additional inputs or connections		Inpu	ut for current senso	r connection or me	ter	
General data						
Allowable ambient temperature range			30°C+60°C (powe			
Topology		Trasforme	erless / High-freque		ry output	
Environmental protection class			IP6			
Allowable relative humidity range			0%95% nor			
Maximum operating altitude			4000			
Noise level Weight			< 25dB 21.5			
Cooling			Natural co			
Dimensions (H x L x D)						
Data monitoring	482mmx503mmx183mm LCD Display + APP					
			5 or 10	,		
\		(NB [.] the exte		be obtained by regist	tering on th	
Warranty						

*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. **Only referred to the drum channel *** 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)