

3PH HYD 5000 ZP3/ 3PH HYD 12000 ZP3

Three-phase hybrid inverter



- » Sistema di accumulo integrato, con installazione modulare per una maggior facilità di montaggio
- » Design compatto e ingombri ridotti
- » Parallelabile
- » Basso consumo della batteria, facile manutenzione per il trasporto e lo stoccaggio
- » Modalità di supporto stand alone, garantisce la continuità di esercizio ed il funzionamento in isola, sia da fonte fotovoltaica che da batteria, in caso di black-out elettrico
- » EMS multifunzione integrato

NEW



DATI TECNICI	3PH HYD 5000 ZP3	3PH HYD 6000 ZP3	3PH HYD 8000 ZP3	3PH HYD 10000 ZP3	3PH HYD 12000 ZP3
DC input data (photovoltaic)					
Typical DC power*	7500W	9000W	12000W	15000W	18000W
Maximum DC power for each MPPT					
No. of independent MPPTs / No. of strings per MPPT			3/1		
Maximum input voltage			1100V		
Start-up voltage			200V		
Rated Input voltage			600V		
MPPT DC voltage range			160V-950V		
DC voltage range at full load					
Maximum input current for each MPPT			20A/20A/20A		
Maximum absolute current for each MPPT			25A/25A/25A		
Battery connection data					
Type of compatible battery			HV ZBT 5K		
Rated voltage			400V		
Allowable voltage range			350-435V		
Maximum charge/discharge power	5000W	6000W	8000W	10000W	10000W
Allowable temperature range**		0°C/+50°C (Charge) / -10°C/+50°C (Discharge)			
Number/capacity of installable batteries			1-6 / 5.1-30.6kWh		
Charge curve			Managed by integrated BMS		
Depth of Discharge (DoD)			0%-90% (programmabile)		
Dimensions (H x L x D)			420mm*708mm*170mm		
Weight			50kg		
AC output (grid side)					
Rated power	5000W	6000W	8000W	10000W	12000W
Maximum Power	5500VA	6600VA	8800VA	11000VA	13200VA
Maximum current	8A	9.6A	12.8A	15.9A	19.1A
Connection type/Rated voltage		Three-phase 3PH/N/PE 220/380V ,230/400V			
AC voltage range		184V-276V (according to the local standards)			
Rated frequency		50Hz/60Hz			
AC frequency range		44Hz-55Hz / 54Hz-66Hz (according to the local standards)			
Total harmonic distortion		< 3%			
Power factor		1 default (programmabile +/- 0.8)			
Grid feed-in limit		Programmabile from display			
EPS Output (Emergency Power Supply)					
Power supplied in EPS mode***	5500VA	6600VA	8800VA	11000VA	13200VA
Apparent peak power in EPS mode***		Three-phase 3PH/N/PE 220/380V ,230/400V			
EPS output voltage and frequency	8A	9.6A	12.8A	15.9A	19.1A
Total harmonic distortion		< 3%			
Switch time		< 10ms			
Efficiency					
Maximum efficiency		98%		98.2%	
Weighted efficiency (EURO)		97%		97,5%	
MPPT efficiency			>99.9%		
Consumption in stand-by			< 15W		
Protections					
Internal interface protection			Yes		
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 MOV: Tipo 2 standard			
Battery soft start			Yes		
Standard					
EMC		EN 61000-3-2/3/11/12, EN 61000-6-2/3			
Safety standard		IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC 62109-1/2			
Grid connection standard		Connections certificate and standards available on www.zcsazzurro.com			
Communication					
Communication interfaces		Wi-Fi/4G/Ethernet (optional), RS485 (proprietary protocol), USB, CAN 2.0, Bluetooth			
Other inputs		Input for current sensor connection or meter			
General data					
Allowable ambient temperature range		10°50° (power limit above 45°)			
Topology		Trasformerless / High-frequency isolation battery output			
Environmental protection class		IP65			
Allowable relative humidity range		5% - 95% without condensation			
Maximum operating altitude		4000m (power limit above 2000m)			
Noise level		< 45dB @ 1mt			
Weight		30kg			
Cooling		Natural convention			
Dimensions (H x L x D)		440mm*708mm*170mm			
Data monitoring		Display LCD + APP			
Warranty		"10 years (NB: the extended warranty can be obtained by registering on the EXTENDED WARRANTY section of the zcsazzurro.com website)"			

* 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, temperatur