

## The World's Leading Hybrid Inverter Just Got Better

More than just an inverter, the innovative X-Hybrid is an intelligent energy management system that stores surplus energy in batteries for later use.

The X-Hybrid works by storing surplus energy in batteries for later use, making it possible to utilize solar power time-independently by storing unused capacity. It converts and directs solar power to where it is needed, when it is needed. X-Hybrid is also supplied EPS (Emergency Power Supply) function, allowing the end-user to use their stored energy in the event of a power outage.



X3-Hybrid HV



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## X3-Hybrid HV (THREE PHASE)

## X3-Hybrid-5.0-N-E X3-Hybrid-6.0-N-E X3-Hybrid-8.0-N-E X3-Hybrid-10.0-N-E

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INPUT (DC)						
Max.recommended DC power[w]	7500	9000	12000	15000		
Max.DC voltage[V]	1000	1000	1000	1000		
Nominal DC operating voltage[V]	720	720	720	720		
Max.input current[A]	11/11	11/11	11/11	20/11		
Max. short circuit current[A]	14/14	14/14	14/14	23/14		
No. of MPP trackers	2	2	2	2		
Strings per MPP tracker	1	1	1	2/1		
OUTPUT AC						
Nominal AC power [VA]	5000	6000	8000	10000		
Max. apparent AC power [VA]	5000	6000	8000	10000		
Rated grid voltage(AC voltage range) [V]	400 (360-440)					
Rated grid frequency [Hz]	50/60					
Nominal AC current [A]	7.6	9.1	12.1	15.2		
Displacement power factor		0.8 leading.	0.8 lagging			
Total harmonic distortion(THD, rated power) [%]	<2					
Parallel operation	Yes					
Load control	Yes (optional)					
OUTPUT DC (BATTERY)						
Battery voltage range [V]		170-	-500			
Recommended battery voltage [V]	200	240	320	400		
Max.charging/discharging power [W]	6000	8000	10000	10000		
Max.charging/discharging current [A]	0000		25	10000		
Communication interfaces	CAN/RS485					
Reverse connect protection	Yes					
EPS OUTPUT (WITH BATTERY)			C3			
EPS rated power [VA]	5000	6000	8000	10000		
EPS rated voltage [V], Frequency [Hz]	400/380, 50/60	400/380, 50/60	400/380, 50/60	400/380, 50/60		
EPS rated current [A]	7.2	8.7	11.6	14.5		
EPS peak power[W];Duration [s]	<7500,60	<9000,60	<12000,60	<15000,60		
Switch time[s]	<0.5					
Total harmonic distortion(THD, linear load) [%]	<0.5					
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EFFICIENCY						
MPPT efficiency [%]	99.90					
Euro efficiency [%]	97.00					
Max. efficiency [%]	070 /060		.80	075/065		
Battery charge/discharge efficiency [%]	97.0 / 96.0	97.0 / 96.0	97.5/ 96.5	97.5/ 96.5		
POWER CONSUMPTION						
Standby consumption(night) [W]	<7					
Idle mode		YI	ES			
STANDARD						
Safety	IEC62109-1-2 / IEC62040					
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3					
Certification	VDE0126-1	-1 A1:2012/VDE-AR-N4105/G	98/G99/G100/AS4777/EN5043	88/CEI 0-21		
ENVIRONMENT LIMIT						
Protection class	IP65					
Operating temperature range [°C]	-20 to+60 (derating at+45)					
Altitude[m]	<2000					
Storage temperature[°C]	-20 to+60					
Noise emission(typical) [dB]	<30					
Over voltage category	III (electric supply side), II (PV side)					
DIMENSION AND WEIGHT						
Dimensions(WxHxD) [mm]		655*45	56*208			
Weight[kg]	40					
Cooling concept	Natural					
Topology	Transformerless					
Communication	Ethernet, Meter, WIFI (optional), DRM, USB-Upgrade					
	Backlight 20*4 character					
LCD display			5			