



# X3-HYBRID HV

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### 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.



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#### Get in touch now:

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## X3-Hybrid-5.0T

## X3-Hybrid-6.0T

## X3-Hybrid-8.0T

## X3-Hybrid-10.0T

INPUT (DC)	X3-Hybrid-5.0T	X3-Hybrid-6.0T	X3-Hybrid-8.0T	X3-Hybrid-10.0T
Max.PV array power [Wp]	A:3000/B:3000	A:4000/B:4000	A:6000/B:4000	A:8000/B:5000
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	720	720	720	720
Max. input current (input A/input B) [A]	11/11	11/11	20/11	20/11
Max. short circuit current (input A/input B) [A]	14/14	14/14	23/14	23/14
MPPT voltage range[V]	180-950	180-950	180-950	180-950
Start operating voltage[V]	180	180	180	180
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	A:1/B:1	A:1/B:1	A:2/B:1	A:2/B:1
<b>INPUT AC</b>				
Max. apparent AC power[VA]	5000	6000	8000	10000
Max. AC current[A]	8.0	9.6	12.8	16.0
Nominal grid voltage(AC voltage range)[V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Nominal grid Frequency/range[Hz]	50/60	50/60	50/60	50/60
<b>OUTPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5000	6000	8000	10000
Nominal grid voltage(AC voltage range) [V]			400/230;380/220	
Nominal grid frequency/range [Hz]			50/60	
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.0	9.6	12.8	16.0
Displacement power factor			0.8 leading ... 0.8 lagging	
THDi, rated power [%]			<3	
<b>OUTPUT DC (BATTERY)</b>				
Battery voltage range [V]			160-800	
Max.continuous charge/discharge current [A]			25	
Communication interfaces			CAN/RS485	
Reverse connect protection			Yes	
<b>EPS OUTPUT (WITH BATTERY)</b>				
EPS MAX. continuous apparent power [VA]	5000	6000	8000	10000
EPS rated voltage[V],Frequency [Hz]			400/230VAC;380/220VAC; 50/60	
EPS MAX.continuous current [A]	7.2	8.7	11.6	14.5
EPS peak apparent power [VA] Duration [s]	<10000 60	<12000 60	<14000 60	<15000 60
Changeover time [ms]			<1.5	
THDv, linear Load			<2	
<b>EFFICIENCY</b>				
MPPT efficiency [%]			99.90	
Euro efficiency [%]			97.00	
Max. efficiency [%]			97.80	
Battery charge/discharge efficiency [%]	97.0/96.0	97.0/96.0	97.5/96.5	97.5/96.5
<b>POWER CONSUMPTION</b>				
Standby consumption(night) [W]			200 in standby mode, 15 in idle mode	
<b>STANDARD</b>				
Safety			IEC62109-1-2 / IEC62040	
EMC			EN61000-6-1/EN61000-6-2/EN61000-6-3	
Certification			VDE4105 / AS4777 / EN50549/ CEI 0-21/ G98/ G99/ G100	
<b>ENVIRONMENT LIMIT</b>				
Degree of protection(according to IEC60529)			IP65	
Operating temperature range [°C]			-20~+60 (derating at+45)	
Max. operation altitude [m]			2000	
Humidity [%]			0-100 (non-condensing)	
Storage temperature [°C]			-20~+60	
Typical noise emission [dB]			40	
<b>DIMENSION AND WEIGHT</b>				
Dimensions(WxHxD) [mm]			457*654*228	
Weight[kg]			45	
Cooling concept			Natural	
Topology			Non-isolated	
Communication interfaces			Ethernet/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade/Iso-alarm/NTC/CAN	
LCD display			Backlight 20*4 character	
Standard warranty [years]			5-10	