

H3 PRO SERIES

Three-Phase Hybrid /AC Inverter



Lightspeed storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.



Easy Installation

Flexible configuration, plug and play set-up, built-in fuse protection.



High Voltage

Includes high-voltage batteries for maximum round-trip efficiency.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



BATTERY EXPANSION EASY UPGRADE



Easily expand your system by adding extra batteries. There are three battery series you can choose from, which enables a storage capacity of up to 83.88 kWh. A max. of 10 storage inverters can be connected in parallel which allows you to enlarge the system scale based on different installation requirements.

TECHNICAL SPECIFICATIONS

HYBRID INVERTER MODEL: AC INVERTER MODEL:	H3-Pro-15.0 AC3-Pro-15.0	H3-Pro-20.0 AC3-Pro-20.0	H3-Pro-24.9 AC3-Pro-24.9	H3-Pro-25.0 AC3-Pro-25.0	H3-Pro-29.9 AC3-Pro-29.9	H3-Pro-30.0 AC3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)						
Max.Recommended DC Power [W] ^[1]	22500	30000	37500	37500	45000	45000
Max.DC Voltage [V] ^[2]				1000		
Normal DC Operating Voltage [V]				750		
Max. Input Current [A]				32		
Max. Short Circuit Current [A]				40		
MPPT Voltage Range [V]				150 ~ 850		
MPPT Voltage Range [V] (full load)	170 ~ 850	230 ~ 850	280 ~ 850	280 ~ 850	340 ~ 850	340 ~ 850
Start-up Voltage [V]				160		
No. of MPP Trackers				3		
Strings Per MPP Tracker				2/2/2		
Max. Inverter Backfeed Current to the Array				0		
BATTERY						
Battery Type				Lithium Battery		
Battery Voltage [V]				150 ~ 800		
Full AC Load Battery Voltage [V]	160 ~ 790	220 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]				50+50		
Number of Battery Input				2		
Communication Interface				CAN		
AC OUTPUT						
Normal AC Power [VA]	15000	20000	24900	25000	29900	30000
Max. Apparent AC Power [VA]	16500	22000	24900	27500	29900	33000
Rated Grid Voltage (AC Voltage Range) [VAC]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 , ±5			
Max. AC Current [A] (Per Phase)	25.0	33.3	37.7	41.7	45.4	50.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Export Control			YES			
THDI [%]			<3 @Rated Power			
AC INPUT						
Max. AC Power [VA]	22500	30000	35000	35000	35000	35000
Rated Grid Voltage (AC Voltage Range) [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 , ±5			
Max. AC Current [A] (Per Phase)	34.1	45.5	53.0	53.0	53.0	53.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
EPS OUTPUT						
Max. Apparent AC Power [VA]	15000	20000	25000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	30000	36000	36000
Rated Output Voltage [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60			
EPS Max. Current [A] (Per Phase)	22.7	30.3	37.9	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Parallel Operation			Yes @Max10PCS			
Switch Time [ms]			<20			
THDV [%]			<3 @Rated Power			
EFFICIENCY						
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.80	97.80	97.80	97.80	97.80	97.80
Max. Battery to AC Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10
Euro-Efficiency [%]	97.30	97.40	97.40	97.40	97.40	97.40
PROTECTION						
PV Reverse Polarity Protection				YES		
Batter Reverse Protection				YES		
Anti-Islanding Protection				YES		
Output Short Protection				YES		
Leakage Current Protection				YES		
Insulation Resistor Detection				YES		
Over Voltage Category			III (AC Side) , II (DC Side)			
Reverse Connect Protection			YES			
Over-current Protection / Over-temperature Protection			YES			
AC/DC Surge Protection			Type II/Type II			
AFCI Protection			Optional			
DC SWITCH			Optional			
String Monitoring Function			Optional			
GENERAL DATA						
Dimension (W*H*D) [mm]			600*560*225			
Dimension of Packing (W*H*D) [mm]			720*680*370			
Net Weight [kg]			52.5			
Gross Weight [kg]			57.5			
Installation			Wall-mounted			
Operating Temperature Range [°C]			-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]			-40 ~ +70			
Noise Emission(typical) [dB]	<45	<45	<60	<60	<60	<60
Storage/Operation Relative Humidity [%]			0 ~ 95 (Without Condensation)			
Altitude [m]			<4000			
Protective Class			I			
Ingress Protection			IP65 (for Outdoor Use)			
Standby Consumption [W]			200 for Hot Standby , 18 for Cold Standby			
Idle Mode			YES			
Cooling			Smart FAN Cooling			
Inverter Topology			Non-isolated			
Communication Interface			Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485			
LCD Display			Backlight 16*4 Character			
Button			Capacitive Touch Sensor *4			
Buzzer			1, Inside (EPS&Earth Fault)			
STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST						
Safety			EN 62109-1, EN 62109-2			
EMC			IEC 61000-6-2, IEC 61000-6-3			

*More technical characteristics are available on demand and customized.

[1] Per MPP max. PV input power 15kW.

[2] For 1000V system, Maximum operating voltage is 950V.PV input voltage greater than 955V, PV overvoltage error will be reported.