FOX ESS

POWERQ
ENERGY in a NEW LIGHT

DATASHEET

H3 Plus

THREE-PHASE **HYBRID INVERTER**



LONG BACK UP CAPABILITY

More than 6 hours backup power available.

EPS FUNCTION

Less than 10ms switch time.

HIGH PERFORMANCE

Supports 100% unbalanced three-phase output.

DISPLAY

Color LCD screen.



Advanced System Monitoring
with FoxCloud V2.0



Fox ESS H3 Plus is a state-of-the-art hybrid inverter models designed for maximum efficiency and reliability. With outstanding specifications and advanced features it is a market changer in commercial applications.

37.5kW ··· 70kW

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C 302680 US

TECHNICAL SPECIFICATIONS

MODEL		H3-37.5-Plus-US-L	H3-50-Plus-US-L	H3-60-Plus-US-L	H3-70-Plus-US-L
PV INTPUT					
Max. Array Power [kW]		75	100	120	140
Max. Input Power [kW]		75	100	120	140
Withstand Voltage [V]			900		
Input Voltage Range [V]			180 ~ 850		
Max. MPPT Input Current [A]			40		
Max. MPPT Short Circuit Current [A]			50		
MPPT Voltage Range [V]			180 ~ 700		
Start-up Voltage [V]			180		
No. of MPP Trackers		4	4	8	8
Strings per MPP Tracker			2		
BATTERY SPECIFICATION					
Battery Type			LFP ($LiFePO_4$)		
Voltage Range [V]			180 ~ 700		
Max. Charging/Discharging Current [A]			240 (80+80+80)		
Battery Port			3		
Communication			CAN*3		
AC OUTPUT (GRID)					
Nominal AC Power [kW]		37.5	50	60	70
Max. AC Output Power [kVA]		37.5	50	60	70
Nominal AC Output Current [A]	208V	104.1	138.8	166.6	194.3
	220V	98.4	131.2	157.5	183.7
	240V	90.2	120.3	144.3	168.4
Max. AC Output Current [A]	208V	104.1	138.8	166.6	194.3
	220V	98.4	131.2	157.5	183.7
	240V	90.2	120.3	144.3	168.4
Nominal AC Voltage [V]			208/220/240, 3W+N+PE or 3W+PE		
Nominal AC Frequency [Hz]			50/60		
Frequency Range [Hz]			45 ~ 55 / 55 ~ 65		
Power Factor			0.8 Leading ~ 0.8 Lagging		
Max. THDi [%]			<3 @Rated Power		
AC INTPUT (GRID/GENERATOR)					
Max. AC Input Power [kW]			124.7		
Max. Bypass Current [A]			300		
Nominal AC Voltage [V]			208/220/240, 3W+N+PE or 3W+PE		
Frequency Range [Hz]			50/60, ±5		
EPS OUTPUT (LOAD)					
Max. AC Output Power [kVA]		37.5	50	60	70
Peak AC Output Power [kW] (10s)			93.5		
LRA Current [A]			300		
Nominal AC Voltage [V]			208/220/240, 3W+N+PE or 3W+PE		
Nominal AC Frequency [Hz]			50/60		
Switching Time [ms]			<10		
THDv [%]			<3 @Rated Power		
EFFICIENCY					
CEC Efficiency [%]			97.1		
Max. Efficiency [%]			97.7		
PROTECTION					
DC Input Switch			Yes		
Battery Reverse Polarity			Yes		
PV Reverse Polarity			Yes		
AC Overcurrent Protection			Yes		
AC Output Short Circuit Protection			Yes		
AC/DC Surge Protection			Class II		
ISO Detection			Yes		
Residual Current Detection			Yes		
Ground Fault Detection			Yes		
AFCI			Yes		
Terminal Overtemperature Protection			Yes		
String Current Detection			Yes		
GENERAL SEPECIFICATION					
Dimensions (W*H*D) [in / mm]			28.74*41.73*12.01 / 730*1060*305		
Weight [lbs / kg]		253.5 / 115	253.5 / 115	264.6 / 120	264.6 / 120
Operating Temperature [°F / °C]			-22 ~ 140 / −30 ~ 60		
Cooling Method			Smart Air Cooling		
Operating Altitude [ft / m]			6561 / 2000		
Humidity [%]			0 ~ 100		
Noise [dB]			<70		
Standby Consumption [W]			<60		
DC-Link EV Charger Ready [kW]			20 ~ 50		
Ingress Protection (IP) Rating			NEMA 4X		
Topology			Non-Isolation		
Display			LED, LCD, Wi-Fi+APP		
Communication Ports			USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN		