FOX ESS

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.

DISPLAY

Color LCD screen.

REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



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.

50kW ··· **125kW**

For more information about the Fox ESS range, visit:
au.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	H3-50-Plus	H3-60-Plus	H3-75-Plus	H3-80-Plus	H3-100-Plus	H3-125-Plus
PV INTPUT						
Max. Array Power [kW]	100	120	150	160	200	250
Max. Input Power [kW]	100	120	150	160	200	250
Withstand Voltage [V]	1000					
Input Voltage Range [V]	180 ~ 950					
Max. MPPT Input Current [A]	40					
Max. MPPT Short Circuit Current [A]	50					
MPPT Voltage Range [V]	180 ~ 850					
Start-up Voltage [V]	180					
No. of MPP Trackers	4	4	8	8	8	8
Strings per MPP Tracker	2					
BATTERY SPECIFICATION						
Battery Type	LFP ($LiFePO_4$)					
Voltage Range [V]	180 ~ 950					
Max. Charging/Discharging Current [A]	240 (80+80+80)					
Battery Port	3					
Communication	CAN*3					
AC OUTPUT (GRID)						
Rated AC Output Apparent Power [kVA]	50	60	75	80	100	125
Max. AC Output Power [kVA]	55	66	82.5	88	110	137.5
Rated AC Output Current (Per Phase) [A]	72.2	86.6	108.3	115.5	144.4	180.4
Max. AC Output Current (Per Phase) [A]	83.6	100.3	125.4	133.7	167.2	198.5
Nominal AC Voltage [V]	230/400, 3L+N+PE					
Nominal AC Frequency [Hz]	50					
Power Factor	0.8 Leading ~ 0.8 Lagging					
THDi [%]	<3 @Rated Power					
AC INTPUT (GRID/GENERATOR)						
Max. AC Input Power [kVA]	207					
Max. Apparent Power [kVA]	207					
Max. AC Input Current [A]*	300					
Nominal AC Voltage [V]	230/400, 3L+N+PE					
Nominal AC Frequency [Hz]	50					
EPS OUTPUT (LOAD)						
Rated AC Output Apparent Power [kVA]	50	60	75	80	100	125
Max. AC Output Apparent Power [kVA]	55	66	82.5	88	110	137.5
Peak AC Output Power [kVA] (10s)	155					
Rated AC Output Current (Per Phase) [A]	72.2	86.6	108.3	115.5	144.4	180.4
Max. AC Output Current (Per Phase) [A]	83.6	100.3	125.4	133.7	167.2	198.5
Nominal AC Voltage [V]	230/400, 3L+N+PE					
Nominal AC Frequency [Hz]	50					
Switching Time [ms]	<10					
THDv [%]	<3 @Rated Power					
EFFICIENCY						
European Efficiency [%]	98.1					
Max. Efficiency [%]	98.5					
PROTECTION						
DC Input Switch	GHX5-32P					
Battery Reverse Polarity	Yes					
PV Reverse Polarity	Yes					
AC Overcurrent Protection	Yes					
AC Output Short Circuit Protection	Yes					
AC/DC Surge Protection	Class II					
Anti-Islanding Protection	Active Frequency Drift with Positive Feedback					
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) [mm]	730*1060*305					
Weight [kg]	110	110	120	120	120	120
Operating Temperature [°C]	–30 ~ 60					
Cooling Method	Smart Air Cooling					
Operating Altitude [m]	3000					
Humidity [%]	0 ~ 100					
Noise [dB]	<70					
Standby Consumption [W]	<60					
Ingress Protection (IP) Rating	IP65					
Topology	Non-Isolation					
Display	LED, LCD, Wi-Fi+APP					
Communication Ports	USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN					
MANUFACTURE						
Country of Manufacturer	China					

* Max. AC Input Current = Max. AC Input Continuous Current