FOX ESS

PowerQ
ENERGY in a NEW LIGHT

C 302680 US

# H3 Plus

Max. Potential | High Discharge | Easy Use

3 battery inputs up to 294 kWh per inverter

Single-unit power outage with no impact on other units

10

Maximum 10 units in parallel

200kW diesel generators supported per inverter




LRA up to 300A

Seamless on/off-grid switch

AC coupling (off-grid)

Stable operation at 1.1 overload

## TECHNICAL SPECIFICATIONS

| MODEL | H3-80-Plus-US-H | H3-100-Plus-US-H | H3-125-Plus-US-H | H3-150-Plus-US-H |
|---|---|---|---|---|
| **PV INTPUT** | | | | |
| Max. Array Power [kW] | 160 | 200 | 250 | 272 |
| Max. Input Power [kW] | 160 | 200 | 250 | 272 |
| 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 | 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)** | | | | |
| Nominal AC Power [kW] | 80.00 | 100.00 | 125.00 | 150.00 |
| Max. AC Output Power [kVA] | 88.00 | 110.00 | 137.50 | 165.00 |
| Nominal AC Output Current [A] | 96.23 | 120.28 | 150.40 | 180.40 |
| Max. AC Output Current [A] | 105.85 | 132.31 | 165.40 | 198.50 |
| Nominal AC Voltage [V] | 480, 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] | 249.4 | | | |
| Max. Bypass Current [A] | 300 | | | |
| Nominal AC Voltage [V] | 480, 3W+N+PE or 3W+PE | | | |
| Frequency Range [Hz] | 50/60, ±5 | | | |
| **EPS OUTPUT (LOAD)** | | | | |
| Max. AC Output Power [kVA] | 88.00 | 110.00 | 137.50 | 165.00 |
| Peak AC Output Power [kW] (10s) | 187 | | | |
| LRA Current [A] | 300 | | | |
| Nominal AC Voltage [V] | 480, 3W+N+PE or 3W+PE | | | |
| Nominal AC Frequency [Hz] | 50/60 | | | |
| Switching Time [ms] | <20 | | | |
| THDv [%] | <3 @Rated Power | | | |
| **EFFICIENCY** | | | | |
| CEC Efficiency [%] | 97.6 | | | |
| Max. Efficiency [%] | 98.2 | | | |
| **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] | 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 | | | |