EFIS-D Series

# 50kW/100kWh AIO ESS Cabinet

## EFIS-D-W50/100-AIO




## Integrated Design

- Factory pre-assembled, no installation or debugging required on-site
- DC coupling, supports parallel connection of multiple off-grid systems
- Utilizes high energy density 280Ah cells, offering 140A fast charging & discharging experience
- IP55 protection level, C5 anti-corrosion grade

## Ultimate Safety

- Innovative BMS technology with finer granularity sampling Real-time cell health monitoring and alerts
- Standard AFCI to effectively prevent fire hazards
- Two-level surge protection for AC&DC sides
- Three-level fire protection design: from Pack, Cluster to Water-Sprinkler Fire Suppression

## Convenient & Flexible

- 20ms seamless switch to off-grid mode, ensuring uninterrupted power supply
- Smart backup with diesel generator, no manual intervention needed
- Real-time monitoring via app, always in control of system status
- Optimized strategy with remote OTA updates for easy system upgrades

## Higher Revenue

- Supports self-consumption, peak-valley arbitrage, backup power, and other various scenarios.
- Supports 200% oversizing for photovoltaic, with enhanced performance
- 4 MPPT channels, each supporting up to 20A current
- Strong low-light performance, 150-850V wide voltage range, maximizing solar energy utilization

| Model No. | | EFIS-D-W50/100-AIO | | | |
|---|---|---|---|---|---|
| **Battery Data** | | | | | |
| Battery type | | LiFePO4 | | | |
| Battery cell capacity | V/Ah | 3.2/280 | | | |
| Battery cell combination | | 1P112S | | | |
| Nominal capacity | kWh | 100.35 | | | |
| Rated voltage | V | 358.4 | | | |
| Voltage range | Vdc | 280~408.8 | | | |
| Max charge/discharge current | A | 140 | | | |
| Depth of discharge | % | 95 | | | |
| Cooling method | | Fan cooling | | | |
| Inverter Model | | iINV-HB3-29.9KH | iINV-HB3-30.0KH | iINV-HB3-40.0KH | iINV-HB3-50.0KH |
| **DC Input (PV)** | | | | | |
| Recommended Max. input power | kW | 59.8 | 60.0 | 80.0 | 100.0 |
| Max. DC input voltage | V | 1000 | 1000 | 1000 | 1000 |
| Rated DC input voltage | V | 600 | 600 | 600 | 600 |
| Start-up voltage | V | 180 | 180 | 180 | 180 |
| MPPT voltage range | V | 150-850 | 150-850 | 150-850 | 150-850 |
| No. of MPPT | | 3 | 3 | 4 | 4 |
| Max. input current | A | 3*40 | 3*40 | 4*40 | 4*40 |
| Max. short circuit current | A | 3*60 | 3*60 | 4*60 | 4*60 |
| Max. input strings number | | 6 | 6 | 8 | 8 |
| **AC Output (Grid)** | | | | | |
| Rated output power | kW | 29.9 | 30 | 40 | 50 |
| Max. apparent output power | kVA | 29.9 | 30 | 40 | 50 |
| Rated grid voltage | A | 3/N/PE, 220/380, 230/400 | | | |
| Rated gride frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Max. output current | A | 45.4/43.2 | 45.6/43.3 | 60.8/57.7 | 76/72.2 |
| Power factor | | >0.99 (0.8 leading-0.8 lagging) | | | |
| THDi | | <3%@Rated output power | | | |
| **AC Output (Back-up)** | | | | | |
| Rated output power | kW | 29.9 | 30 | 40 | 50 |
| Max.apparent output power | | 1.6 times of rated power,2s | | | |
| Back-up switch time | ms | <20 | <20 | <20 | <20 |
| Rated output voltage | V | 3/N/PE, 380/400 | | | |
| Rated output frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| THDv | | <3% @Linear load | | | |
| **System Data** | | | | | |
| Dimensions (WxDxH) | mm | 1570*1280*1813 | | | |
| Base dimensions (WxDxH) | mm | 1200*1050*100 | | | |
| Weight | t | 1.3 | | | |
| Protection grade | | IP55 | | | |
| Anti-corrosion grade | | C4 | | | |
| Operating temperature | ℃ | -20~+50(Load drop higher than 50) | | | |
| Relative humidity | % | ≤95 | | | |
| Temperature control | | Industrial air-conditioning | | | |
| Fire protection | | Pack&Cabinet Aerosol +Water fire interface | | | |
| Altitude | m | ≤3000 | | | |
| Hybrid night self-consumption | | <25 | | | |
| **Communication** | | | | | |
| Communication protocol | | CAN / RS485 / Ethernet / Wi-Fi (selectable ) / Cellular (selectable ) / LAN (selectable ) | | | |
| Communication interface | | RJ45 | | | |

*The data sheet will be changed according to actual situation without prior notice.

**Shanghai Hoenergy Power Technology Co.,Ltd**

www.hoenergypower.com
info@hoenergy.com.cn
+86 152 2195 1952

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