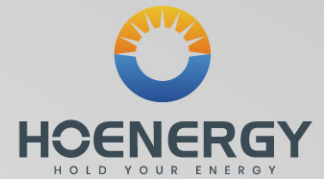


EFIS-D Series Smart PV ESS Cabinet

EFIS-D-W50/100



All-in-one Design

Integrated PV & storage, support multiple PV strings input with max. 20A current;
Multi-channel MPPT design to meet the multi-sided roof PV installation;
Support max. 6 units on-grid and off-grid parallel connection.

Convenient & Flexible

Seamless transition to backup mode against power outage;
IP54 and C5 protection rating for outdoor installation;
Support self-consumption, peak and valley arbitrage, backup power supply etc. various applications.

Safe & Reliable

Independent single cluster battery without circulating current, safer for use;
Pack, cabinet and water fire protection, three-level fire protection design;
Advanced BMS with multiple sampling points coverage, supply real-time data feedback.

Smart & User-friendly

Small footprint, easy to install and maintain;
Support generator access and control it automatically start and stop;
APP monitoring in real time and support remote OTA upgrade.

Data Sheet

Model No.	EFIS-D-W50/100		
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[V]	DC 296.8~408.8		
Max charge/discharge current[A]	140		
Depth of discharge	95%		
Cooling method	Fan cooling		
Inverter Data	30kW	40kW	50kW
PV Input			
Recommended Max. input power[kW]	42.0	56.0	70.0
Max. DC input voltage[V]	1000	1000	1000
Rated DC input voltage[V]	600	600	600
Start-up voltage[V]	180	180	180
MPPT voltage range[V]	150-850	150-850	150-850
No. of MPPT	3	4	4
Max. input current[A]	3*40	4*40	4*40
Max. short circuit current[A]	3*60	4*60	4*60
Max. input strings number	6	8	8
AC Output			
Rated output power with PV[kW]	30	40	50
Max. charging/discharging power[kW]	30	40	50
Rated AC voltage[V]	380		
Rated AC frequency[Hz]	50/60	50/60	50/60
Max. output current[A]	54.13	72.17	90.21
Back-up Data			
Rated output power with PV[kW]	30	40	50
Rated output power only battery[kW]	30	40	50
Switching time[ms]	<20	<20	<20
Rated output voltage	3/N/PE,380V/400V		
Rated output frequency[Hz]	50/60	50/60	50/60
Voltage harmonic distortion	≤2%		
System Data			
Dimensions (WxDxH)[mm]	1530*1280*1740		
Base dimensions (WxDxH)[mm]	1200*1050*100		
Weight[t]	1.5		
Protection grade	IP54		
Anti-corrosion grade	C5		
Operating temperature[°C]	-25~50 (Load drop higher than 50)		
Relative humidity	≤95%		
Temperature control	Industrial air-conditioning		
Fire protection	Aerosol		
Altitude[m]	≤3000		
PCS cooling method	Forced air cooling		
Communication protocol	CAN / RS485 / Ethernet / Wi-Fi (selectable) / Cellular (selectable) / LAN (selectable)		
Communication interface	RJ45		

