



DHN-F(S)1P2K4B2K5-EU-G1

Low-voltage single-phase all-in-one solar storage system

The DHN-F(S)1P all-in-one solar storage system features a dual architecture design of DC/AC coupling to achieve multi-scenario adaptation and restructure the green and intelligent management of home energy. It supports the connection of micro-inverters to form an AC-coupled photovoltaic energy storage system, which improves the efficiency of energy storage and optimization on the basis of existing photovoltaic power generation. In addition, it can deeply cooperate with the self-developed SolarUnit system of DAH Solar to achieve seamless energy storage addition.



Safe & Reliable

- Grade-A LiFePO4+ smart BMS for safe and stable operation
- Supports 2 times overload in short-time
- 4ms backup power switching



Flexible

- All-in-one integrated system with quick-plug design, easy to install and multi-scenario application
- Compatible with existing microinverter systems
- Supports mixed use of old & new batteries, up to 4 units connected



Convenient & Smart

- LCD touchscreen for intuitive setup & real-time monitoring
- Remote configuration and monitoring via App, smart energy management
- Supports the setting of 6 time periods for battery charging/discharging

Integrated Solar Storage System All-In-One Module

Model	DHN-FS1P2K4B2K5-EU-G1	DHN-F1P2K4B2K5-EU-G1
Battery Input Data		
Battery Type	LiFePO4	LiFePO4
Battery Voltage Range (V)	21.6~28.8	21.6~28.8
Battery Rated Voltage (V)	25.6	25.6
Battery Rated Energy (Wh)	2560	2560
Max. Charging/Discharging Current (A)	50	50
Scalability	Parallel connection of up to four units	Parallel connection of up to four units
PV String Input Data		
Max. PV Input Power (W)	2000	/
Max. PV Input Voltage (V)	480	/
Start-up Voltage (V)	60	/
MPPT Voltage Range (V)	70~450	/
Max. Operating PV Input Current (A)	18	/
Max. Input Short-Circuit Current (A)	27	/
No. of MPP Tracker	1	/
AC Input/Output Data(On-grid)		
Max. AC Input/Output Power (W)*	2400	2400
Max. AC Input/Output Apparent Power (VA)	2400	2400
Max. AC Input/Output Current (A)	10.9	10.9
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	50/45-55, 60/55-65
Grid Connection Form	L+N+PE	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)	<3% (of nominal power)
AC Output Data(Off-grid)		
Max. AC Output Power (W)	2400	2400
Max. AC Output Current (A)	10.9	10.9
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	50/45-55, 60/55-65
Other Technical Data		
Display	LED/LCD/APP	LED/LCD/APP
Monitor Mode	WIFI/Bluetooth	WIFI/Bluetooth
Operating Temperature Range (C)	-20 to +60	-20 to +60
Permissible Ambient Humidity(%)	0-95(No Condensation)	0-95(No Condensation)
Permissible Altitude(m)	3000	3000
Ingress Protection(IP) Rating	IP 65	IP 65
Cabinet Size (WxHxD mm)	510*350*250	510*350*250
Weight (kg)	30	30
Type of Cooling	Natural Cooling	Natural Cooling
Installation Style	Floor-Mounted	Floor-Mounted
Warranty	5 Years (the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy)	5 Years (the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy)
Grid Regulation	VDE-AR-N 4105: 2018	VDE-AR-N 4105: 2018
Safety / EMC Standard	IEC/EN 61000-6-1:2019, IEC/EN 61000 6-3:2021,IEC/EN 62109-1:2010	IEC/EN 61000-6-1:2019, IEC/EN 61000 6-3:2021,IEC/EN 62109-1:2010
Battery Certification	IEC62619-CB,CE,UN38.3	IEC62619-CB,CE,UN38.3

Note:*German regulations restrict balcony photovoltaic systems to a maximum output power of 800W,Adjustment of on-grid output power via APP.

Battery Pack Module



Model	DHN-LVSES2.5-G1
Main Parameter	
Battery Type	LiFePO4
Battery Rated Energy(kWh)	2.56
Battery Rated Capacity(Ah)	100
Scalability	Parallel connection of up to four units
Charge/Discharge Current(A)-Recommend	50
Charge/Discharge Current(A)-Max.	50
Other Parameter	
Recommend Depth of Discharge(%)	≤90
System Dimension(W/H/D,mm)	510*220*250
System Weight(kg)	22
IPRating of Enclosure	IP65
Operating Temperature(°C)	Charge0~+60, Discharge-20~+60
Storage Temperature(°C)	-20~+35
CycleLife (25±2C,0.5C/0.5C,70%EOL)	≥6000(25±2°C, 0.5C/0.5C, 70%EOL)
Installation Style	Floor-Mounted
Communication Methods	RS485
Warranty Period (years)	5
Certification	IEC62619,CE,UN38.3



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