



POWERING YOUR LIFE



3.6kW~12kW/5~50kWh All-In-One  
Single/Three Phase Energy Storage Solution

### AI-W5.1-B-ESS (SPRING SERIES)



#### All-in-One

Hybrid inverter and LFP battery in one sleek system



#### Smarter Energy Use

Peak-shaving, smart load, AC coupling, time of use



#### Scalable Capacity

Modular design expandable from 5 kWh to 50 kWh



#### Uninterrupted Supply

4 ms seamless switchover from grid to back-up for energy security



#### Effortless Installation

Tool-free stacking for quick and easy installation



#### Smart Control

Convenient management via App, PC, or touch display

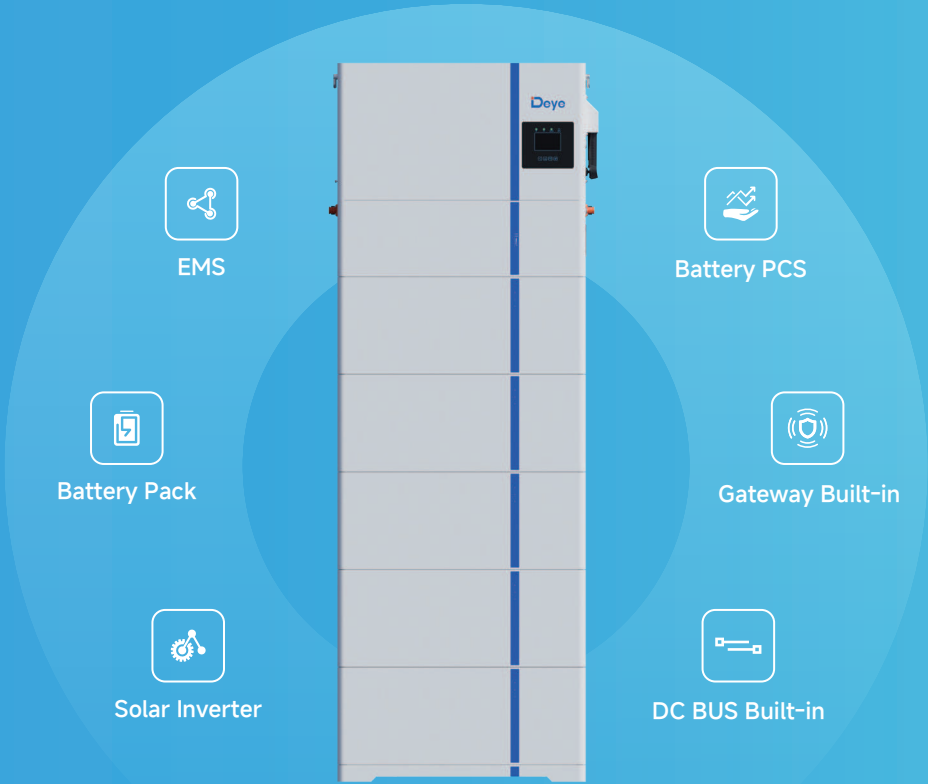
 [www.deyeess.com](http://www.deyeess.com) / [www.deyeinverter.com](http://www.deyeinverter.com)



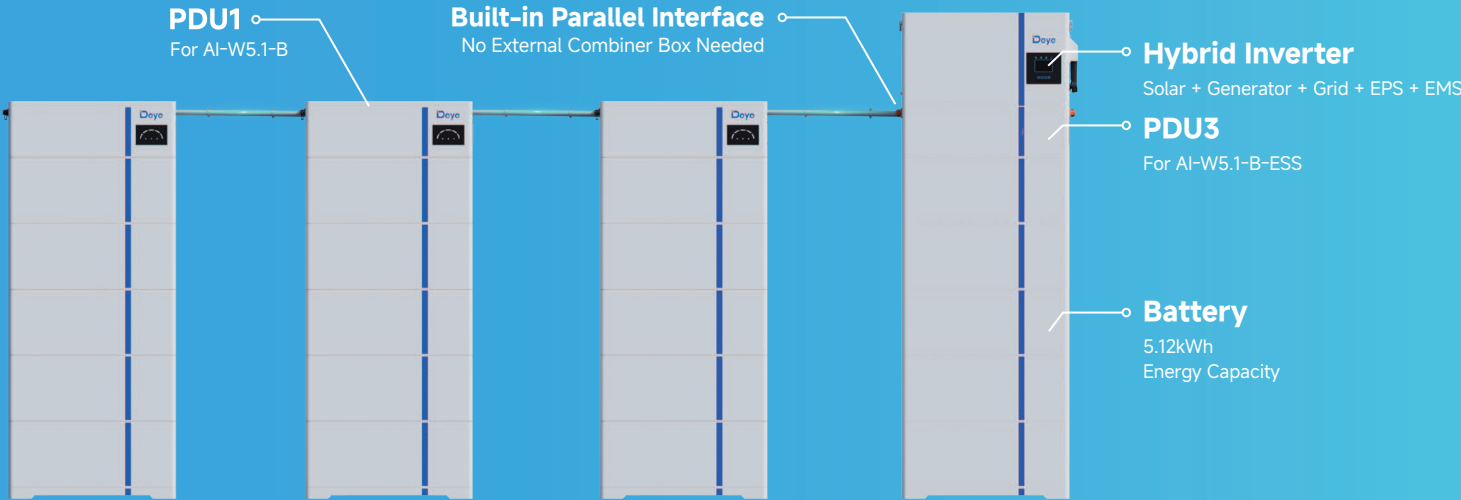
Deye ESS / Deye New Energy

# ALL-IN-ONE POWER, READY IN MINUTES

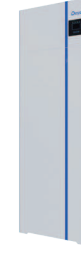
## 6-in-One, Smart Integrated Design

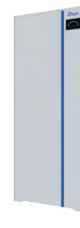
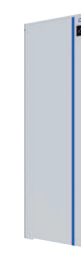


- **3.6-12kW**  
Single/Three-Phase Inverter
- **5-50kWh**  
Flexible System Capacity
- **Tool-Free**  
Stacking Installation
- **One-Click**  
System Setup
- **Gateway & DC Bus**  
Built-in



## Scalable Energy for Every Need

|                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                    |
|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                               |  |  |  |  |  |
| Hybrid Inverter + PDU3 + Base | x1                                                                                  | x1                                                                                  | x1                                                                                  | x1                                                                                  | x1                                                                                 |
| Battery                       | x1                                                                                  | x2                                                                                  | x3                                                                                  | x4                                                                                  | x5                                                                                 |
| Energy Capacity               | 5.12kWh                                                                             | 10.24kWh                                                                            | 15.36kWh                                                                            | 20.48kWh                                                                            | 25.6kWh                                                                            |

|                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 |  |  |  |  |  |  |
| PDU1 + Base     | x1                                                                                  | x1                                                                                  | x1                                                                                  | x1                                                                                  | x1                                                                                  | x1                                                                                  |
| Battery         | x1                                                                                  | x2                                                                                  | x3                                                                                  | x4                                                                                  | x5                                                                                  | x6                                                                                  |
| Energy Capacity | 5.12kWh                                                                             | 10.24kWh                                                                            | 15.36kWh                                                                            | 20.48kWh                                                                            | 25.6kWh                                                                             | 30.72kWh                                                                            |

## Power Distribution Unit

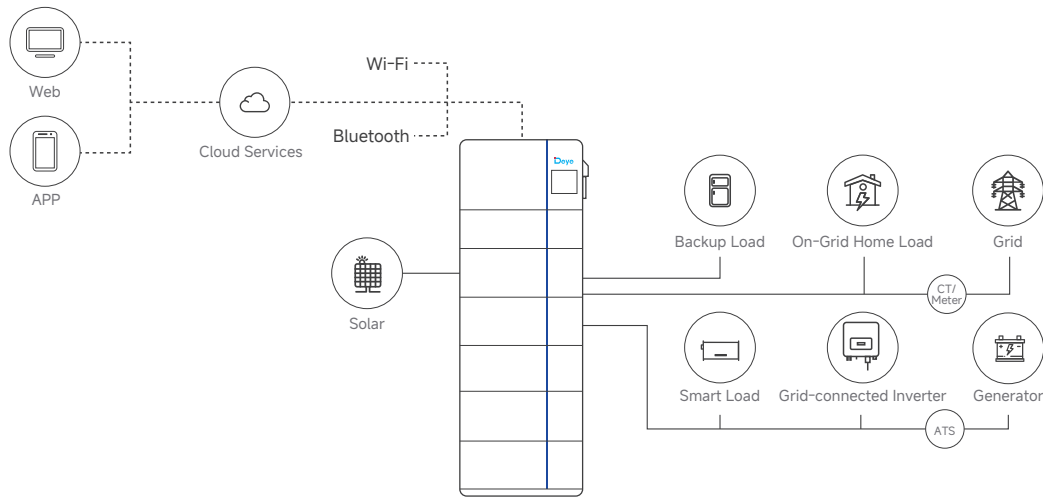


Model: [AI-W5.1-PDU1-B](#)  
Application: For [AI-W5.1-B](#), supporting inter-cluster capacity expansion and parallel operation  
Details: 720 × 254 × 239.8 (W × D × H, mm) , 18.5kg  
Built-in Circuit Breaker: Two-pole Molded Case, 250A, 1000V



Model: [AI-W5.1-PDU3-B](#)  
Application: For [AI-W5.1-B-ESS](#), supporting inter-cluster capacity expansion and parallel operation  
Details: 720 × 254 × 239.8 (W × D × H, mm) , 18.5kg  
Built-in Circuit Breaker: Two-pole Molded Case, 250A, 1000V

## Typical Scenario





# Deye Hybrid Inverter

3.6-10 kW Single-Phase | 5-12 kW Three-Phase  
5-50kWh System

3.6kW~12kW/5~50kWh  
Energy Storage System



**4 ms** ultra-fast grid to  
back-up power switching time



**2×** rated power  
for 10 seconds



**Quick** and **simple**  
setup



Smart **EMS** with  
**real-time** monitoring



**One-click** diagnostics  
via Deye Cloud



**IP65** protection for reliable  
outdoor performance



1 × PDU1 + 5 × Battery + 1 × Base

1 × Inverter + 1 × PDU3 + 5 × Battery + 1 × Base



| Model (Single-phase)                             | AI-W5.1-3.6P1-EU-B                                                                                                                   | AI-W5.1-5P1-EU-B | AI-W5.1-6P1-EU-B | AI-W5.1-7P1-EU-B | AI-W5.1-7.6P1-EU-B | AI-W5.1-8P1-EU-B | AI-W5.1-10P1-EU-B |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|--------------------|------------------|-------------------|
| Battery Input Data                               |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Battery Type                                     | Lithium-ion                                                                                                                          |                  |                  |                  |                    |                  |                   |
| Battery Voltage                                  | 40-60                                                                                                                                |                  |                  |                  |                    |                  |                   |
| Max. Charging Current(A)                         | 90                                                                                                                                   | 120              | 135              | 175              | 190                | 190              | 210               |
| Max. Discharging Current(A)                      | 90                                                                                                                                   | 120              | 135              | 175              | 190                | 190              | 210               |
| Charging Strategy for Li-Ion Battery             | Self-adaption to BMS                                                                                                                 |                  |                  |                  |                    |                  |                   |
| Number of Battery Input                          | 1                                                                                                                                    |                  |                  |                  |                    |                  |                   |
| PV String Input Data                             |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Max. PV access power(W)                          | 7200                                                                                                                                 | 10000            | 12000            | 14000            | 15200              | 16000            | 20000             |
| Max. PV Input Power(W)                           | 5760                                                                                                                                 | 8000             | 9600             | 11200            | 12160              | 12800            | 16000             |
| Max. PV Input Voltage(V)                         | 500                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Start-up Voltage(V)                              | 125                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| PV Input Voltage Range(V)                        | 125-500                                                                                                                              |                  |                  |                  |                    |                  |                   |
| MPPT Voltage Range(V)                            | 150-425                                                                                                                              |                  |                  |                  |                    |                  |                   |
| Full Load MPPT Voltage Range(V)                  | 300-425                                                                                                                              |                  |                  | 200-425          |                    |                  | 250-425           |
| Rated PV Input Voltage(V)                        | 370                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Max. Operating PV Input Current(A)               | 18+18                                                                                                                                |                  |                  | 32+32            |                    |                  |                   |
| Max. Input Short-Circuit Current(A)              | 27+27                                                                                                                                |                  |                  | 48+48            |                    |                  |                   |
| No.of MPPT Trackers/No.of String MPPT Tracker    | 2/1+1                                                                                                                                |                  |                  | 2/2+2            |                    |                  |                   |
| Max. Inverter Backfeed Current to The Array      | 0                                                                                                                                    |                  |                  |                  |                    |                  |                   |
| AC Input/Output Data                             |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Rated AC Input/Output Active Power(W)            | 3600                                                                                                                                 | 5000             | 6000             | 7000             | 7600               | 8000             | 10000             |
| Max. AC Input/Output Apparent Power(VA)          | 3960                                                                                                                                 | 5500             | 6600             | 7700             | 8360               | 8800             | 11000             |
| Peak Power (off-grid)(W)                         | 2 times of rated power, 10s                                                                                                          |                  |                  |                  |                    |                  |                   |
| Rated AC Input/Output Current(A)                 | 16.4/15.7                                                                                                                            | 22.7/21.7        | 27.3/26.1        | 31.9/30.5        | 34.5/33            | 36.4/34.8        | 45.5/43.5         |
| Max. AC Input/Output Current(A)                  | 18/17.2                                                                                                                              | 25/23.9          | 30/28.7          | 35/33.5          | 38/36.3            | 40/38.3          | 50/47.9           |
| Max. Continuous AC Passthrough (grid to load)(A) | 35                                                                                                                                   |                  | 40               | 50               |                    |                  |                   |
| Max. Output Fault Current(A)                     | 36                                                                                                                                   | 50               | 60               | 70               | 76                 | 80               | 100               |
| Max. Output Overcurrent Protection(A)            | 80                                                                                                                                   |                  |                  | 140              |                    |                  |                   |
| Rated Input/Output Voltage/Range(V)              | 220V/230V 0.85Un-1.1Un                                                                                                               |                  |                  |                  |                    |                  |                   |
| Grid Connection Form                             | L+N+PE                                                                                                                               |                  |                  |                  |                    |                  |                   |
| Rated Input/Output Grid Frequency/Range          | 50Hz/45Hz-55Hz 60Hz/45Hz-65Hz                                                                                                        |                  |                  |                  |                    |                  |                   |
| Power Factor Adjustment Range                    | 0.8 leading-0.8 lagging                                                                                                              |                  |                  |                  |                    |                  |                   |
| Total Current Harmonic Distortion THDi           | <3% (of nominal power)                                                                                                               |                  |                  |                  |                    |                  |                   |
| DC Injection Current                             | <0.5%In                                                                                                                              |                  |                  |                  |                    |                  |                   |
| Efficiency                                       |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Max. Efficiency                                  | 97.60%                                                                                                                               |                  |                  |                  |                    |                  |                   |
| Euro Efficiency                                  | 96.50%                                                                                                                               |                  |                  |                  |                    |                  |                   |
| MPPT Efficiency                                  | >99%                                                                                                                                 |                  |                  |                  |                    |                  |                   |
| Equipment Protection                             |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| DC Polarity Reverse Connection Protection        | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| AC Output Overcurrent Protection                 | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| AC Output Overvoltage Protection                 | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| AC Output Short Circuit Protection               | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Thermal Protection                               | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Arc fault circuit interrupter (AFCI)             | Optional                                                                                                                             |                  |                  |                  |                    |                  |                   |
| Power Network Monitoring                         | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Island Protection Monitoring                     | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Earth Fault Detection                            | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| DC Input Switch                                  | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Overvoltage Load Drop Protection                 | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Residual Current (RCD) Detection                 | Yes                                                                                                                                  |                  |                  |                  |                    |                  |                   |
| Anti-islanding Protection                        | Yes(Active Frequency Shift)                                                                                                          |                  |                  |                  |                    |                  |                   |
| Surge Protection Level                           | TYPE II(DC), TYPE II(AC)                                                                                                             |                  |                  |                  |                    |                  |                   |
| Interface                                        |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Display                                          | LCD+LED                                                                                                                              |                  |                  |                  |                    |                  |                   |
| Communication Interface                          | RS232, RS485, CAN                                                                                                                    |                  |                  |                  |                    |                  |                   |
| Monitor Mode                                     | GPRS/WIFI/Bluetooth/4G/LAN (optional)                                                                                                |                  |                  |                  |                    |                  |                   |
| PV Connection                                    | VP-D4                                                                                                                                |                  |                  |                  |                    |                  |                   |
| General Data                                     |                                                                                                                                      |                  |                  |                  |                    |                  |                   |
| Operating Temperature Range                      | -40 to +60°C, >45°C Derating                                                                                                         |                  |                  |                  |                    |                  |                   |
| Permissible Ambient Humidity                     | 0-100%                                                                                                                               |                  |                  |                  |                    |                  |                   |
| Permissible Altitude                             | 2000m                                                                                                                                |                  |                  |                  |                    |                  |                   |
| Noise                                            | <30 dB(A)                                                                                                                            |                  |                  |                  |                    |                  |                   |
| Ingress Protection(IP) Rating                    | IP 65                                                                                                                                |                  |                  |                  |                    |                  |                   |
| Inverter Topology                                | Non-Isolated                                                                                                                         |                  |                  |                  |                    |                  |                   |
| Over Voltage Category                            | OVC II(DC), OVC III(AC)                                                                                                              |                  |                  |                  |                    |                  |                   |
| Cabinet size(W*H*D) [mm]                         | 720W×399.2H×256D (Excluding connectors and brackets)                                                                                 |                  |                  |                  |                    |                  |                   |
| Weight(kg)                                       | 31.6                                                                                                                                 |                  |                  |                  |                    |                  |                   |
| Warranty                                         | 5Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter,<br>More Info Please Refer to Warranty Policy |                  |                  |                  |                    |                  |                   |
| Type of Cooling                                  | Intelligent Air Cooling                                                                                                              |                  |                  |                  |                    |                  |                   |
| Grid Regulation                                  | IEC 61727,IEC 62116,CEI 0-21,EN 50549, NRS 097,RD 140,UNE 217002,OVE-Richtlinie R25,G99,VDE-AR-N 4105                                |                  |                  |                  |                    |                  |                   |
| Safety EMC/Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                               |                  |                  |                  |                    |                  |                   |

| Model (Three-phase)                              | AI-W5.1-5P3-EU-B                                                                                                                   | AI-W5.1-6P3-EU-B | AI-W5.1-8P3-EU-B | AI-W5.1-10P3-EU-B | AI-W5.1-12P3-EU-B |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|-------------------|-------------------|
| Battery Input Data                               |                                                                                                                                    |                  |                  |                   |                   |
| Battery Type                                     | Lithium-ion                                                                                                                        |                  |                  |                   |                   |
| Battery Voltage                                  | 40-60                                                                                                                              |                  |                  |                   |                   |
| Max. Charging Current(A)                         | 120                                                                                                                                | 130              | 190              | 210               | 240               |
| Max. Discharging Current(A)                      | 120                                                                                                                                | 130              | 190              | 210               | 240               |
| Charging Strategy for Li-Ion Battery             | Self-adaption to BMS                                                                                                               |                  |                  |                   |                   |
| Number of Battery Input                          | 1                                                                                                                                  |                  |                  |                   |                   |
| PV String Input Data                             |                                                                                                                                    |                  |                  |                   |                   |
| Max. PV access power(W)                          | 10000                                                                                                                              | 12000            | 16000            | 20000             | 24000             |
| Max. PV Input Power(W)                           | 8000                                                                                                                               | 9600             | 12800            | 16000             | 19200             |
| Max. PV Input Voltage(V)                         | 800                                                                                                                                |                  |                  |                   |                   |
| Start-up Voltage(V)                              | 160                                                                                                                                |                  |                  |                   |                   |
| PV Input Voltage Range(V)                        | 160-800                                                                                                                            |                  |                  |                   |                   |
| MPPT Voltage Range(V)                            | 200-650                                                                                                                            |                  |                  |                   |                   |
| Full Load MPPT Voltage Range(V)                  | 350-650                                                                                                                            |                  |                  |                   |                   |
| Rated PV Input Voltage(V)                        | 550                                                                                                                                |                  |                  |                   |                   |
| Max. Operating PV Input Current(A)               | 20+20                                                                                                                              |                  |                  | 36+20             |                   |
| Max. Input Short-Circuit Current(A)              | 30+30                                                                                                                              |                  |                  | 54+30             |                   |
| No.of MPPT Trackers/No.of String MPPT Tracker    | 2/1+1                                                                                                                              |                  |                  | 2/2+1             |                   |
| Max. Inverter Backfeed Current to The Array      | 0                                                                                                                                  |                  |                  |                   |                   |
| AC Input/Output Data                             |                                                                                                                                    |                  |                  |                   |                   |
| Rated AC Input/Output Active Power(W)            | 5000                                                                                                                               | 6000             | 8000             | 10000             | 12000             |
| Max. AC Input/Output Apparent Power(VA)          | 5500                                                                                                                               | 6600             | 8800             | 11000             | 13200             |
| Peak Power (off-grid)(W)                         | 2 times of rated power, 10s                                                                                                        |                  |                  |                   |                   |
| Rated AC Input/Output Current(A)                 | 7.6/7.2                                                                                                                            | 9.1/8.7          | 12.1/11.6        | 15.2/14.5         | 18.2/17.4         |
| Max. AC Input/Output Current(A)                  | 8.4/8                                                                                                                              | 10/9.6           | 13.4/12.8        | 16.7/15.9         | 20/19.1           |
| Max. Continuous AC Passthrough (grid to load)(A) | 45                                                                                                                                 |                  |                  |                   |                   |
| Max. Output Fault Current(A)                     | 16.8                                                                                                                               | 20               | 26.8             | 33.4              | 40                |
| Max. Output Overcurrent Protection(A)            | 70                                                                                                                                 |                  |                  |                   |                   |
| Rated Input/Output Voltage/Range(V)              | 220/380V,230/400V 0.85Un-1.1Un                                                                                                     |                  |                  |                   |                   |
| Grid Connection Form                             | 3L+N+PE                                                                                                                            |                  |                  |                   |                   |
| Rated Input/Output Grid Frequency/Range          | 50Hz/45Hz-55Hz 60Hz/55Hz-65Hz                                                                                                      |                  |                  |                   |                   |
| Power Factor Adjustment Range                    | 0.8 leading-0.8 lagging                                                                                                            |                  |                  |                   |                   |
| Total Current Harmonic Distortion THDi           | <3% (of nominal power)                                                                                                             |                  |                  |                   |                   |
| DC Injection Current                             | <0.5%In                                                                                                                            |                  |                  |                   |                   |
| Efficiency                                       |                                                                                                                                    |                  |                  |                   |                   |
| Max. Efficiency                                  | 97.6%                                                                                                                              |                  |                  |                   |                   |
| Euro Efficiency                                  | 97.0%                                                                                                                              |                  |                  |                   |                   |
| MPPT Efficiency                                  | >99%                                                                                                                               |                  |                  |                   |                   |
| Equipment Protection                             |                                                                                                                                    |                  |                  |                   |                   |
| DC Polarity Reverse Connection Protection        | Yes                                                                                                                                |                  |                  |                   |                   |
| AC Output Overcurrent Protection                 | Yes                                                                                                                                |                  |                  |                   |                   |
| AC Output Overvoltage Protection                 | Yes                                                                                                                                |                  |                  |                   |                   |
| AC Output Short Circuit Protection               | Yes                                                                                                                                |                  |                  |                   |                   |
| Thermal Protection                               | Yes                                                                                                                                |                  |                  |                   |                   |
| Arc fault circuit interrupter (AFCI)             | Optional                                                                                                                           |                  |                  |                   |                   |
| Power Network Monitoring                         | Yes                                                                                                                                |                  |                  |                   |                   |
| Island Protection Monitoring                     | Yes                                                                                                                                |                  |                  |                   |                   |
| Earth Fault Detection                            | Yes                                                                                                                                |                  |                  |                   |                   |
| DC Input Switch                                  | Yes                                                                                                                                |                  |                  |                   |                   |
| Overvoltage Load Drop Protection                 | Yes                                                                                                                                |                  |                  |                   |                   |
| Residual Current (RCD) Detection                 | Yes                                                                                                                                |                  |                  |                   |                   |
| Anti-islanding Protection                        | Yes(Active Frequency Shift)                                                                                                        |                  |                  |                   |                   |
| Surge Protection Level                           | TYPE II(DC), TYPE II(AC)                                                                                                           |                  |                  |                   |                   |
| Interface                                        |                                                                                                                                    |                  |                  |                   |                   |
| Display                                          | LCD+LED                                                                                                                            |                  |                  |                   |                   |
| Communication Interface                          | RS232, RS485, CAN                                                                                                                  |                  |                  |                   |                   |
| Monitor Mode                                     | GPRS/WIFI/Bluetooth/4G/LAN (optional)                                                                                              |                  |                  |                   |                   |
| PV Connection                                    | VP-D4                                                                                                                              |                  |                  |                   |                   |
| General Data                                     |                                                                                                                                    |                  |                  |                   |                   |
| Operating Temperature Range                      | -40 to +60°C, >45°C Derating                                                                                                       |                  |                  |                   |                   |
| Permissible Ambient Humidity                     | 0-100%                                                                                                                             |                  |                  |                   |                   |
| Permissible Altitude                             | 2000m                                                                                                                              |                  |                  |                   |                   |
| Noise                                            | ≤ 55 dB                                                                                                                            |                  |                  |                   |                   |
| Ingress Protection(IP) Rating                    | IP 65                                                                                                                              |                  |                  |                   |                   |
| Inverter Topology                                | Non-Isolated                                                                                                                       |                  |                  |                   |                   |
| Over Voltage Category                            | OVC II(DC), OVC III(AC)                                                                                                            |                  |                  |                   |                   |
| Protection Level                                 | Class I                                                                                                                            |                  |                  |                   |                   |
| Cabinet size(W*H*D) [mm]                         | 720W×460.5H×254D (Excluding connectors and brackets)                                                                               |                  |                  |                   |                   |
| Weight(kg)                                       | 44                                                                                                                                 |                  |                  |                   |                   |
| Warranty                                         | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy |                  |                  |                   |                   |
| Type of Cooling                                  | Intelligent Air Cooling                                                                                                            |                  |                  |                   |                   |
| Grid Regulation                                  | IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,OVE-Richtlinie R25,G99,VDE-AR-N 4105                              |                  |                  |                   |                   |
| Safety EMC/Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                             |                  |                  |                   |                   |

# Deye AI-W5.1-B Battery

5.12kWh | LFP | Stacked Battery Module  
5.12kWh~30.72kWh Per Stack

- 

Highly **scalable** and **flexible** capacity
- 

Intelligent **BMS** for safety and longer lifespan
- 

**Real-time** battery monitoring via Deye Cloud
- 

**Auto-networking** and remote fimware upgrades
- 

**Wide** operating temperature range with natural cooling
- 

**IP65** protection for reliable outdoor performance
- 

**100% DOD**  
Maximises subsidies at lower cost
- 

Built-in **Parallel Interface**  
No External Combiner Box Needed

## Stacked Battery (LV)

| Model                                       |                 | AI-W5.1-B                                                                                                                     |
|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Main Parameter                              |                 |                                                                                                                               |
| Battery Chemistry                           |                 | LiFePO4                                                                                                                       |
| Built-in Circuit Breaker                    |                 | 125A 2P, 60Vdc                                                                                                                |
| Nominal Energy (kWh)                        |                 | 5.12                                                                                                                          |
| Usable Energy (kWh) <sup>[1]</sup>          |                 | 4.6                                                                                                                           |
| Capacity (Ah)                               |                 | 100                                                                                                                           |
| Nominal Voltage (V)                         |                 | 51.2                                                                                                                          |
| Operating Voltage(V)                        |                 | 44.8~57.6                                                                                                                     |
| Rated DC Power ( kW)                        |                 | 2.5                                                                                                                           |
| Charge/Discharge Current (A) <sup>[2]</sup> | Recommend       | 50                                                                                                                            |
|                                             | Max.            | 100                                                                                                                           |
|                                             | Peak( 10s,25°C) | 150                                                                                                                           |
| Other Parameter                             |                 |                                                                                                                               |
| Recommend Depth of Discharge                |                 | 90%                                                                                                                           |
| Battery Dimension (W/D/H, mm)               |                 | 720*255*300 (without terminal parts)                                                                                          |
| Battery Weight (kg)                         |                 | 53                                                                                                                            |
| Master LED Indicator                        |                 | Battery module: 3LED (working, alarming, protecting),<br>PDU module: 5LED(SOC:20%~ 100%)&3LED (working, alarming, protecting) |
| Operating Temperature                       |                 | Charge: 0~55°C ( -20°C~55°C optional heating) / Discharge: -20°C~55°C                                                         |
| Storage Temperature                         |                 | 0°C ~ 35°C                                                                                                                    |
| IP Rating of Enclosure                      |                 | IP65 (after stacking)                                                                                                         |
| Humidity                                    |                 | 5%~95%, non-condensing                                                                                                        |
| Altitude                                    |                 | ≤3000m                                                                                                                        |
| Installation                                |                 | Floor-Mounted                                                                                                                 |
| Communication Port                          |                 | CAN2.0, RS485                                                                                                                 |
| Cycle Life                                  |                 | ≥6000(25°C±2°C ,0.5C/0.5C,70%EOL)                                                                                             |
| Energy Throughput                           |                 | 16MWh(Battery Module @70%EOL)                                                                                                 |
| Warranty Period <sup>[3]</sup>              |                 | 10 years                                                                                                                      |
| Certification                               |                 | UN38 .3, IEC62619, CE, UK, VDE2510-50, CEI0-21,CE-LVD, CEC, FCC, UL1973, UL9540A                                              |

### Parallel expansion

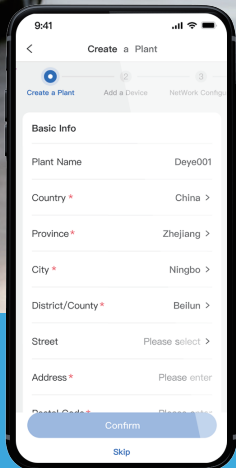
|                |                                               |             |             |               |               |               |               |
|----------------|-----------------------------------------------|-------------|-------------|---------------|---------------|---------------|---------------|
| Battery system | Battery Pack Quantity                         | 1           | 2           | 3             | 4             | 5             | 6             |
|                | System Usable Energy (kWh) [1]                | 4.6         | 9.2         | 13.8          | 18.4          | 23            | 27.6          |
|                | System Recommend Charge/Discharge Current (A) | 50          | 100         | 150           | 200           | 250           | 250           |
|                | System Max. Charge/Discharge Current (A) [2]  | 100         | 200         | 250           | 250           | 250           | 250           |
|                | System Rated DC Power ( kW)                   | 2.5         | 5           | 7.5           | 10            | 12            | 12            |
|                | System Dimension (W/D/H, mm) (With PDU, Base) | 720*255*569 | 720*255*850 | 720*255* 1131 | 720*255* 1412 | 720*255* 1693 | 720*255* 1974 |
|                | System Weight (kg) (With PDU, Base)           | 74.5        | 127.5       | 180.5         | 233.5         | 286.5         | 339.5         |
|                |                                               |             |             |               |               |               |               |

[1]DC Usable Energy, test conditions: 90%DOD, 0.5C charge & discharge at 25°C . System usable energy may vary due to system configuration parameters.  
[2]The current is affected by temperature and SOC.  
[3]Conditions apply, refer to Deye Warranty Letter.  
[4]Made in China.

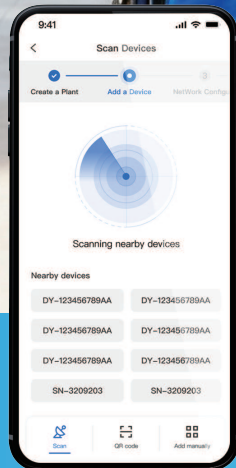


# Deye Cloud – Installation Guide for Hybrid Inverter Commissioning

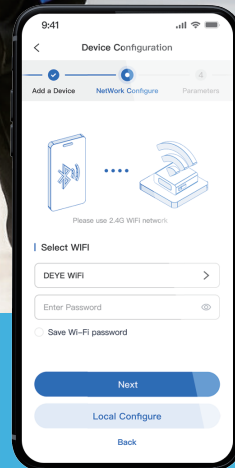
## 5-step Setup



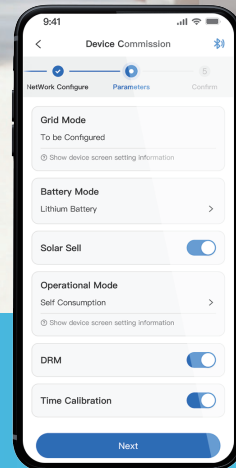
1. Create a Plant



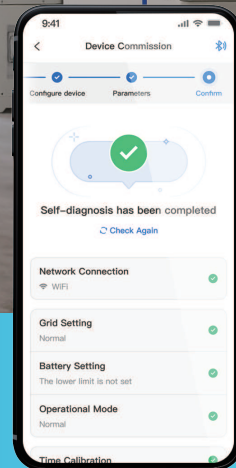
2. Discover Devices



3. Configure Network



4. Set Parameters



5. Confirm

### Easy Step-by-Step Guide

Clear instructions take you from wiring to config, right in the app, simplifying the process.

### Full Communication Checks

Scans WiFi, Bluetooth to ensure everything's linked up perfectly.

### Smart Parameter Setup

The app checks and sets key settings like voltage, grid, and battery automatically, making the process faster while eliminating any chance of mistakes.

### Quick and Hassle-Free

Built-in tips and tracking keeps things efficient, saving time and avoiding the need for return trips.

## Deye Cloud

### All-in-one Energy & Device Management Platform

- Unlock Significant Savings
- Individual Add-On for Dynamic Tariff
- Intelligent Charging/Discharging Strategies
- Tailored Solution to Deye Devices
- Real-time Equipment Monitoring



## Smarten Up Your Home Energy

Download Deye Cloud APP to join us!

Embrace a seamless, effortless energy experience that's both eco-friendly and budget-friendly with our intelligent assistant



### All in One

Smarter home energy and device management



### Cloud-edge Collaboration

Faster and more efficient control



### Accelerated Connectivity

Optimized for speed and performance



### Advanced Smart Energy

A smarter way to manage your electricity bills