



Smart Solar Systems GmbH

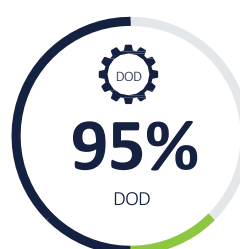
Wärmepumpen, Solar & Elektrik



# HVES Home H Series

SMART ENERGY  
SUSTAINABLE SOLUTIONS

HOME-ESS-HV-5.12K



## Leading Technology

- Modular design, no connection design, quick installation
- Higher DOD (95%) for more usable energy

## Intelligent Platform

- Service for predicting and solving the problems online faster and in time
- Higher DOD (95%) for more usable energy

## Ultra Safety

- Built in aerosol fireprotection systems
- Improved heat dissipation structure
- Top quality lithium iron phosphate for a long time cycle life

## Smart Management

- 24/7 realtime monitoring & remote diagnosis or upgrade



# HVES Home H Series

| Model | HOME-ESS-HV-5.12K |  |  |  |  |  |
|-------|-------------------|--|--|--|--|--|
|-------|-------------------|--|--|--|--|--|

|                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cell Type                        | LFP(LiFePO4)                                                                      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Module Energy                    | 5.12kWh                                                                           |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Module Weight                    | 43Kg                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Number of Modules                | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                   | 7                                                                                   | 8                                                                                   |
| System Structure                 |  |  |  |  |  |  |
| Nominal Energy (kWh)             | 15.36                                                                             | 20.48                                                                             | 25.6                                                                              | 30.72                                                                               | 35.84                                                                               | 40.96                                                                               |
| Nominal Voltage (V)              | 153.6                                                                             | 204.8                                                                             | 256                                                                               | 307.2                                                                               | 358.4                                                                               | 409.6                                                                               |
| Operating Voltage Range (V)      | 144 172.8                                                                         | 192 230.4                                                                         | 240 288                                                                           | 288 345.6                                                                           | 336 403.2                                                                           | 384 460.8                                                                           |
| Dimension(W*D*H) (mm)            | 650*355*812                                                                       | 650*355*995                                                                       | 650*355*1178                                                                      | 650*355*1361                                                                        | 650*355*1544                                                                        | 650*355*1727                                                                        |
| Weight (Kg)                      | 148                                                                               | 191                                                                               | 234                                                                               | 277                                                                                 | 320                                                                                 | 363                                                                                 |
| Charging Temperature             | From 5 to 55°C                                                                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Discharging Temperature          | From 20 to 55°C                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Depth of Discharge               | 95% DOD                                                                           |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Nominal Charge/Discharge Current | 50A                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Max. Charge/Discharge Current    | 100A                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Cycle Life                       | >6000, 25°C                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Ingress Protection Degree        | IP65                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Cooling Type                     | Natural convection                                                                |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Humidity                         | 5%~95%                                                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Altitude                         | <2000                                                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Warranty                         | 10 years                                                                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Communication                    | CAN/RS485/WIFI/Bluetooth                                                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Battery Safety                   | IEC 62619/IEC 62477/CE                                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Transportation Certification     | UN38.3                                                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |





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| Module Energy                    | 5.12kWh                                                                           |                                                                                   |                                                                                     |                                                                                     |
| Module Weight                    | 43Kg                                                                              |                                                                                   |                                                                                     |                                                                                     |
| Number of Modules                | 9                                                                                 | 10                                                                                | 11                                                                                  | 12                                                                                  |
| System Structure                 |  |  |  |  |
| Nominal Energy (kWh)             | 46.08                                                                             | 51.2                                                                              | 56.32                                                                               | 61.44                                                                               |
| Nominal Voltage (V)              | 460.8                                                                             | 512.0                                                                             | 563.2                                                                               | 614.4                                                                               |
| Operating Voltage Range (V)      | 432518.4                                                                          | 480576                                                                            | 528633.6                                                                            | 576691.2                                                                            |
| Dimension(W*D*H) (mm)            | 650*355*1910                                                                      | 650*355*2093                                                                      | 650*355*2276                                                                        | 650*355*2459                                                                        |
| Weight (Kg)                      | 406                                                                               | 449                                                                               | 492                                                                                 | 535                                                                                 |
| Charging Temperature             | From 5 to 55°C                                                                    |                                                                                   |                                                                                     |                                                                                     |
| Discharging Temperature          | From 20 to 55°C                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Depth of Discharge               | 95% DOD                                                                           |                                                                                   |                                                                                     |                                                                                     |
| Nominal Charge/Discharge Current | 50A                                                                               |                                                                                   |                                                                                     |                                                                                     |
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