Deye

# BALCONY ENERGY STORAGE SOLUTION

## DEYE AUTUMN AE SERIES



### Convenient Charge
- Portable Power with
- USB-A and Type C

### Extreme Weather Adaptability
- Wide Operating
- Temperature -10°C ~ 50°C

### High Protection
- IP 65
- Water & Dust Protection

### Long Lifespan
- 5-year Warranty
- 6000 Cycles to 70% Capacity

### Convenient
- Comfortable and easy control
- Via App, PC or Touch-Display

### Flexible Operation
- Support On-grid and Off-grid Operation

**⩾6000**
Cycles

**IP65**
Rated for indoor and outdoor use

**70%**
EOL

**5 years**
Warranty

# Integrated Solar Storage System
# All-In-One Module

1600W PV MPPT Input

2kWh LFP Battery

1000W On-grid and Off-grid Operation

| Model | AE-FS2.0-2H7 |
|---|---|
| **AC Technical Specification** | |
| Nominal Input / Output Power / UPS Power | 1000 / 1000W |
| AC Input / Output Frequency and Voltage | 50Hz ( 45Hz ~ 55Hz ) , 60Hz ( 55Hz ~ 65Hz ) , L / N ( PE ) , 220 / 230 Vac |
| Grid Type | Single phase |
| Rated Grid Input / Output Current | 4.6A / 4.4A |
| Max.Grid Input / Output Current | 5.0A / 4.8A |
| Peak Power ( off-grid ) | 2 times of rated power, 10s |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging |
| Max. bypass Grid to load | 10A |
| DC injection current | THD<3% ( Linear load<1.5% ) mA |
| **DC Technical Specification** | |
| Max. PV Access Power ( W ) | 2200W |
| Max. PV Input Power | 1600W |
| Max. PV Input Voltage ( V ) | 60V |
| Start-up Voltage ( V ) | 25 |
| MPPT voltage range ( V ) | 20 ~ 55 |
| Full Load MPPT Voltage Range ( V ) | 30 ~ 55 |
| Rated PV Input voltage ( V ) | 42.5V |
| Max. Input Short-Circuit Current ( A ) | 27+27A |
| Max. Operating PV Input Current ( A ) | 18+18A |
| No. of MPP Trackers / No. of Strings per MPP Tracker | 2 / 1 |
| **Battery Technical Specification** | |
| Battery Chemistry | $LiFePO_4$ |
| Battery Nominal Voltage | 51.2V |
| Battery Nominal Energy | 2000Wh |
| Max.Charging/Discharging Current | 25A |
| Battery Operating Voltage | 44.8V ~ 57.6V |
| Battery Cycle Life | ⩾6,000 ( @25°C±2°C, 0.5C / 0.5C, 70%EOL ) |
| Parallel Capability | Supports up to 4 AE-F2.0 Smart Extra Batteries up to 10kWh |
| **USB Port Technical Specification** | |
| USB-A Output | 2ports, 5V, 2.4A, 12W Max per port |
| USB-C Output | 2ports, 5V, 3.0A, 15W Max per port |
| **Other Technical Specification** | |
| Display | Colorful Touch LCD & APP & Battery LED ( SOC, Alarm ) |
| Communication interfaces | Wi-Fi, Bluetooth, Lora |
| Dimension ( W × D × H ) | 450 × 210 × 321mm |
| Weight Approximate ( kg ) | 26Kg |
| Operating Temperature Range | -10°C ~ 50°C, >45°C Derating |
| Max. Operating Altitude | 2000m |
| Relative Humidity | 0 ~ 95% ( No Condensing ) |
| Safety EMC / Standard | IEC62619, UN38.3, IEC / EN62109-1, IEC / EN62109-2, IEC / EN61000-6-1, IEC / EN61000-6-2, IEC / EN61000-6-3, IEC / EN61000-6-4 |
| Grid Regulation | VDE4105, IEC61727 / 62116, VDE0126, AS4777.2, CEI0-21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149 / NBR16150 |
| Battery Certification | UN38.3, IEC 62619 |
| Installation Style | Floor-Mounted |
| Warranty | 5 years |

# Integrated Solar Storage System
# All-In-One Module

2560W PV
MPPT Input

2kWh
LFP Battery

1600W On-grid and
Off-grid Operation

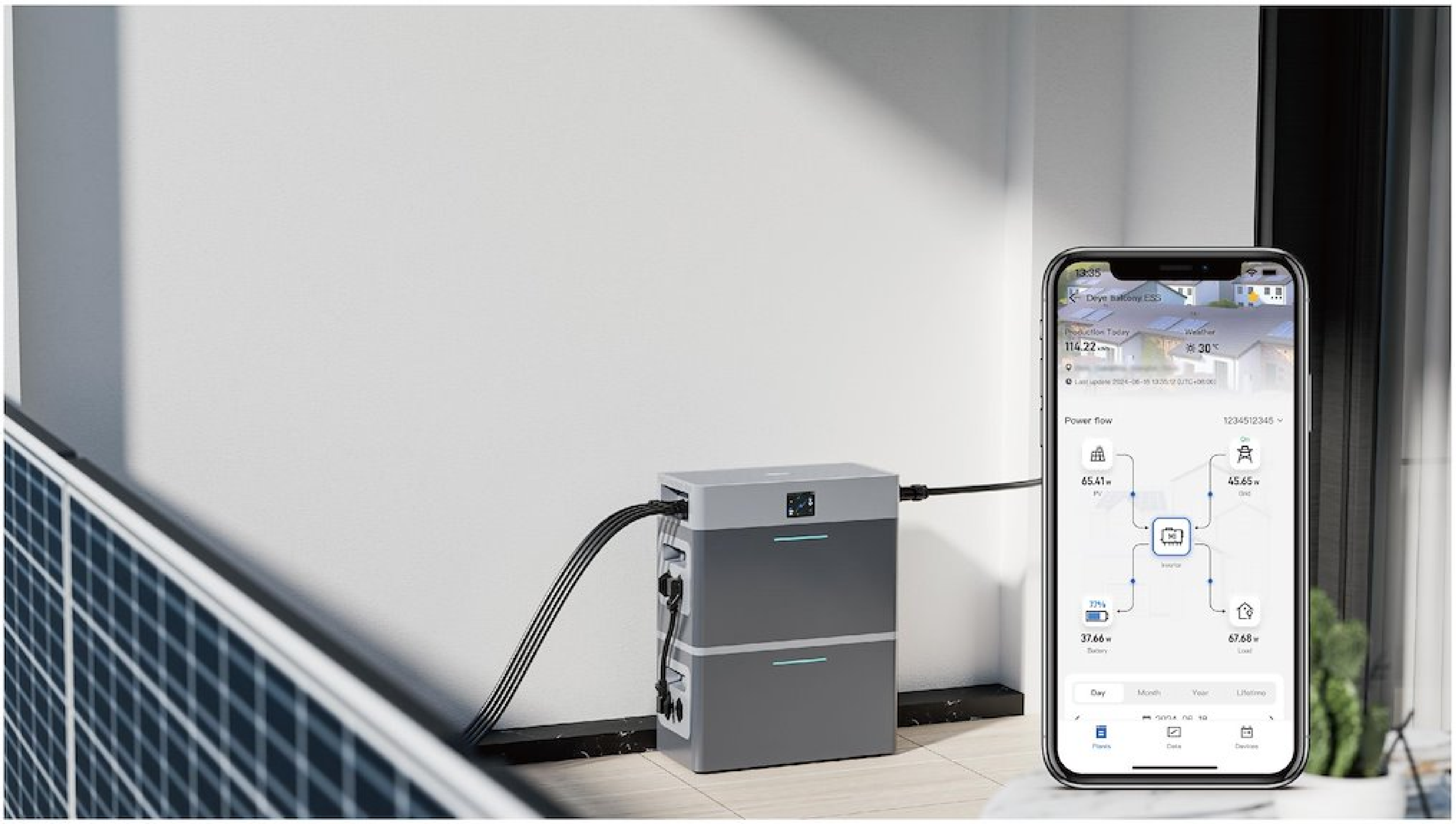
| Model | AE-FS2.0-1H7 |
|---|---|
| **AC Technical Specification** | |
| Nominal Input / Output Power / UPS Power | 1600 / 1600W |
| AC Input / Output Frequency and Voltage | 50Hz ( 45Hz ~ 55Hz ) , 60Hz ( 55Hz ~ 65Hz ) , L / N ( PE ) , 220 / 230 Vac |
| Grid Type | Single phase |
| Rated Grid Input / Output Current | 7.3 / 7A |
| Max.Grid Input / Output Current | 8 / 7.7 A |
| Peak Power ( off-grid ) | 2 times of rated power, 10s |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging |
| Max. bypass Grid to load | 16A |
| DC injection current | THD<3% ( Linear load<1.5% ) mA |
| **DC Technical Specification** | |
| Max. PV Access Power ( W ) | 3520W |
| Max. PV Input Power | 2560W |
| Max. PV Input Voltage ( V ) | 60V |
| Start-up Voltage ( V ) | 25 |
| MPPT voltage range ( V ) | 20 ~ 55 |
| Full Load MPPT Voltage Range ( V ) | 30 ~ 55 |
| Rated PV Input voltage ( V ) | 42.5V |
| Max. Input Short-Circuit Current ( A ) | 45+45A |
| Max. Operating PV Input Current ( A ) | 30+30A |
| No. of MPP Trackers / No. of Strings per MPP Tracker | 2 / 2 |
| **Battery Technical Specification** | |
| Battery Chemistry | $LiFePO_4$ |
| Battery Nominal Voltage | 51.2V |
| Battery Nominal Energy | 2000Wh |
| Max.Charging/Discharging Current | 40A |
| Battery Operating Voltage | 44.8V ~ 57.6V |
| Battery Cycle Life | ⩾6,000 ( @25°C±2°C, 0.5C / 0.5C, 70%EOL ) |
| Parallel Capability | Supports up to 4 AE-F2.0 Smart Extra Batteries up to 10kWh |
| **USB Port Technical Specification** | |
| USB-A Output | 2ports, 5V, 2.4A, 12W Max per port |
| USB-C Output | 2ports, 5V, 3.0A, 15W Max per port |
| **Other Technical Specification** | |
| Display | Colorful Touch LCD & APP & Battery LED ( SOC, Alarm ) |
| Communication interfaces | Wi-Fi, Bluetooth, Lora |
| Dimension ( W × D × H ) | 450 × 210 × 336mm |
| Weight Approximate ( kg ) | 29Kg |
| Operating Temperature Range | -10°C ~ 50°C, >45°C Derating |
| Max. Operating Altitude | 2000m |
| Relative Humidity | 0 ~ 95% ( No Condensing ) |
| Safety EMC / Standard | IEC62619, UN38.3, IEC / EN62109-1, IEC / EN62109-2, IEC / EN61000-6-1, IEC / EN61000-6-2, IEC / EN61000-6-3, IEC / EN61000-6-4 |
| Grid Regulation | VDE4105, IEC61727 / 62116, VDE0126, AS4777.2, CEI0-21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149 / NBR16150 |
| Battery Certification | UN38.3, IEC 62619 |
| Installation Style | Floor-Mounted |
| Warranty | 5 years |

# Deye Cloud
# Intelligent Energy Management

Efficiency Optimization

Real-Time Monitoring

User-Friendly




## SCENARIO-BASED ENERGY MANAGEMENT SOLUTIONS

Utilize energy in every outdoor adventure or household needs. Embrace effortless energy experience that's both eco-friendly and budget-friendly with our intelligent assistant.

Scenario 1 :

Compact Balcony Solar Plant
Automated Energy-Saving Strategies

Scenario 2 :

Camping Power Solution
Empower Your Outdoor Adventure

Scenario 3 :

Reliable Home Emergency Power Source
Ensure You Stay Powered Up When You Need It Most




## SMARTEN-UP YOUR HOME ENERGY

Real-time monitoring, with data information at a glance.
Create scenario-based tasks that adapt to your daily routines.
A smarter way to manage your electricity bills.

## CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

User-friendly interface demystifies complex settings.
Clear menu hierarchy, key information at your finger tips.

Download on the App Store

GET IT ON Google Play

Join Deye's Intelligent Energy Revolution and Start Saving Today!

# Battery Pack Module

Expansion Battery Modules

Only Support Deye Microinverters



| Model | AE-F2.0 |
|---|---|
| **Battery Technical Specification** | |
| Battery Chemistry | $LiFePO_4$ |
| Battery Nominal Voltage | 51.2V |
| Battery Nominal Energy | 2000Wh |
| Max. Charging / Discharging Current | 40A / 50A |
| Battery Operating Voltage | 44.8V ~ 57.6V |
| Battery Cycle Life | ⩾6000 ( @25°C±2°C, 0.5C / 0.5C, 70%EOL ) |
| Parallel Capability | 5 pcs |
| **Other Technical Specification** | |
| Display | LED ( SOC, Alarm ) |
| Communication interfaces | CAN2.0, LoRa |
| Dimension ( W × D × H ) | 450 × 210 × 244mm |
| Weight Approximate ( kg ) | 20 |
| Operating Temperature Range | -10°C ~ 50°C |
| Max. Operating Altitude | 3000m |
| Relative Humidity | 15% ~ 85% ( No Condensing ) |
| Certification | UN38.3, IEC 62619, CE |
| Installation Style | Floor-Mounted |
| Warranty | 5 years |

*Maximum 5 Pieces AE-F2.0 Packs in Parallel, Up to 10kWh.

Deye

# To Make ESS Better

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