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

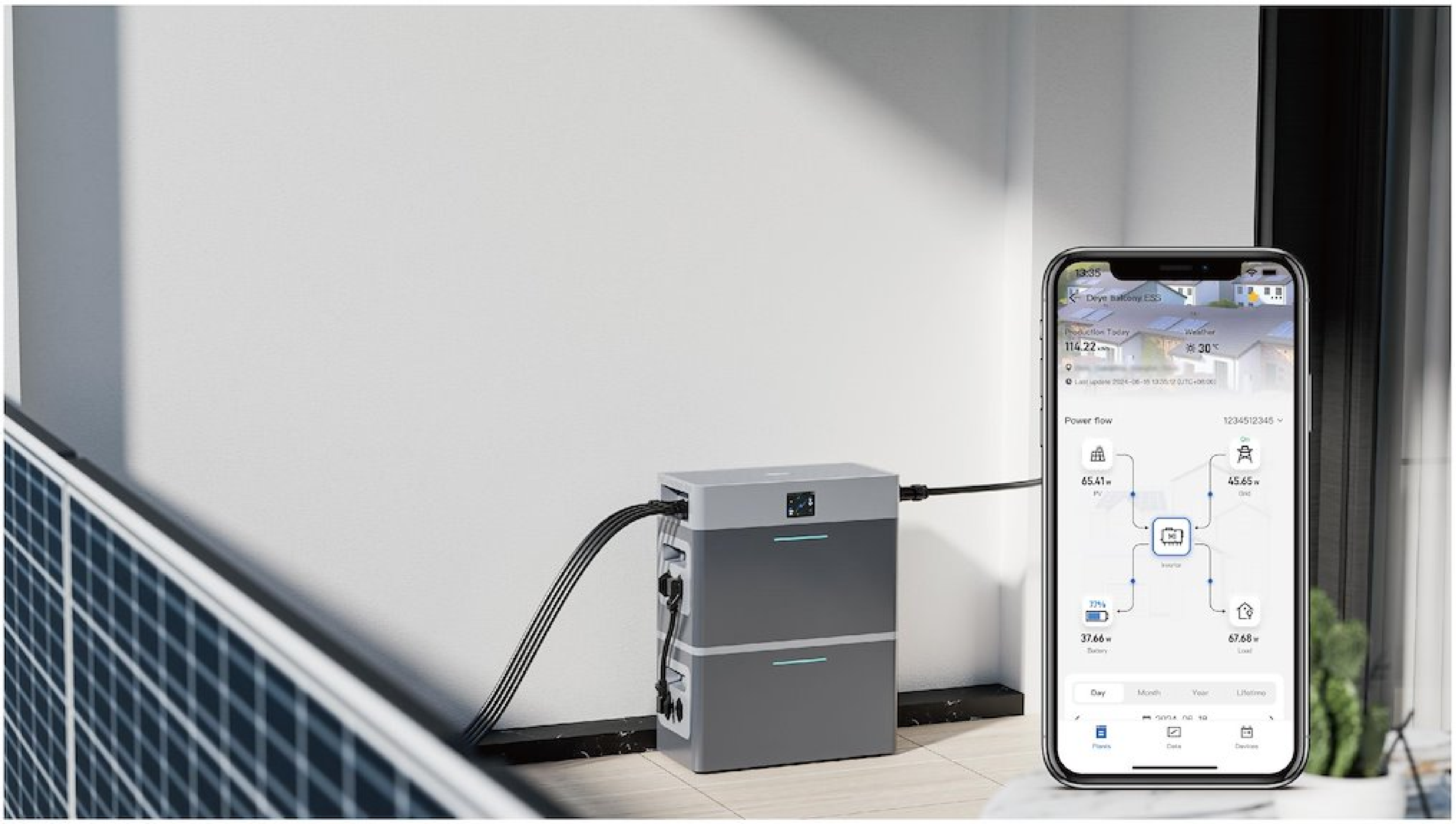
Model	AE-FS2.0-1H7
AC Technical Specification	
Nominal Input / Output Power / UPS Power	1600 / 1600W
AC Input / Output Frequency and Voltage	50Hz (45Hz ~ 55Hz) , 60Hz (55Hz ~ 65Hz) , L / N (PE) , 220 / 230 Vac
Grid Type	Single phase
Rated Grid Input / Output Current	7.3 / 7A
Max.Grid Input / Output Current	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

Deye ESS Facebook

Deye ESS / Deye Inverter

www.deyeess.com / www.deyeinverter.com