

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

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

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



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

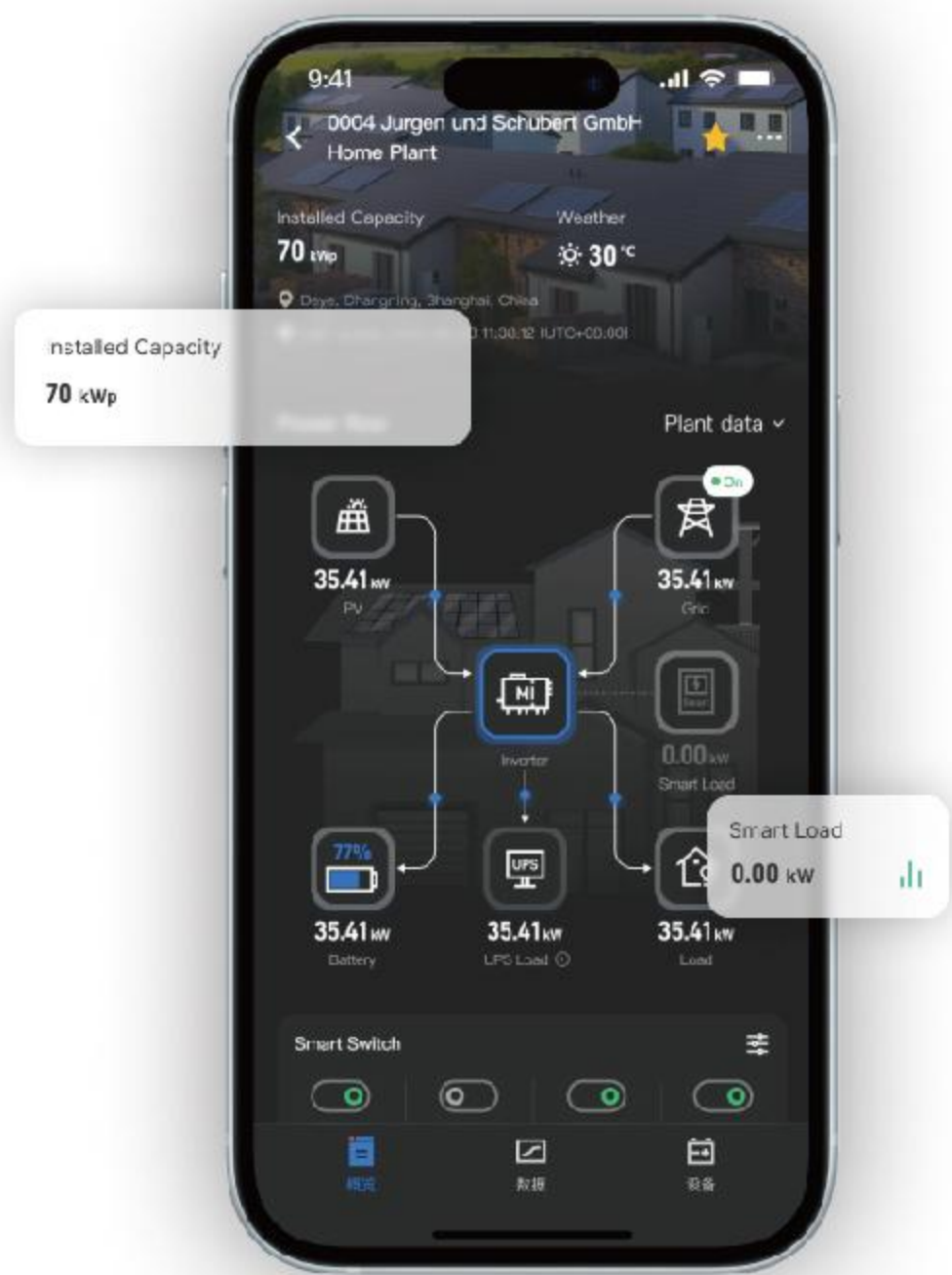
Empower Your Outdoor Adventure

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.





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.



To Make ESS Better



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