Deye

Micro Hybrid Energy Storage System **MICRO HYBRID ESS**

Suitable for on-grid, off-grid, and portable use

SUN-BK60/80/100-2.0KWH-EU-AM2



Hybrid Grid-Tied Mode Self-consumption



Off-Grid Mode Standalone & portable energy storage



AC-Coupled Mode Upgrade the existing PV balcony system to ESS



Doys mit



1000W Rated Power AC Charge/Discharge



UPS-Grade Backup Power Grid-tie and off-grid switchover time is less than 4ms



.

1111

Local Bluetooth Communication Supports offline control via the Deye Cloud APP



Wireless Energy Management System Smart plug, smart switch, wireless CT



Quiet Operation Fanless design with natural cooling

60

High-Power PV Input Supports up to 2200W for PV access



Seamless Scalability Easily expand the system with additional battery capacity



IP65 Protection Rating 10-year standard warranty





Micro Hybrid Energy Storage System





1000W On-grid and Off-grid Operation



Model	SUN-BK60-2.0KWH-EU-AM2	SUN-BK80-2.0KWH-EU-AM2	SUN-BK100-2.0KWH-EU-AM2		
AC Technical Specification					
Nominal Input / Output Power / UPS Power	600 / 660W	800 / 880W	1000 / 1000W		
AC Input / Output Frequency and Voltage	50Hz (45Hz ~ 55	50Hz (45Hz ~ 55Hz) , 60Hz (55Hz ~ 65Hz) , L / N (PE) , 220 / 230 Vac			
Grid Type		Single phase			
Rated Grid Input / Output Current	2.8A / 2.7A	3.7A / 3.5A	4.6A / 4.4A		
Max.Grid Input / Output Current	3.0A / 2.9A	4.0A / 3.9A	5.0A / 4.8A		
Peak Power (off-grid)		2 time 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			
PV Technical Specification					
Max. PV Access Power	1320W	1760W	2200W		
Max. PV Input Power	960W	1280W	1600W		
Max. PV Input Current		18A+18A			
Max. PV Short-Circuit Current		27A+27A			
Rated PV Input Voltage		42.5V (20V ~ 55V)			
Start Up DC Voltage		25Vdc			
MPPT Voltage Range		20 ~ 55V			
Number of MPPT		2			
Battery Chemistry		LiFePO			
Battery Nominal Voltage		51.2V			
Battery Nominal Energy		2000Wh			
Battery Operating Voltage	44.8V ~ 57.6V				
Battery Cycle Life	≥6	≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)			
Other Technical Specification					
Display	Colorful 7	Colorful Touch LCD & APP & Battery LED (SOC, Alarm)			
Communication Interfaces	Wi-Fi, Bluetooth				
Dimension ($W \times D \times H$)	$450 \times 210 \times 321$ mm				
Weight Approximate		26kg			
Operating Temperature Range	-10°C ~ 50°C				
Max. Operating Altitude	2000m				
Relative Humidity	0% ~ 95% (No Condensing)				
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1/2/3/4				
Grid Regulation	VDE 4105,IEC 61727/62116,VDE 0126,AS 4777.2,CEI 0-21,EN 50549-1,G98,G99,C10-11, UNE 217002,NBR 16149/NBR 16150				
Battery Certification	UN38.3, IEC 62619				
Installation Style	Floor-Mounted				
Warranty		10 years			



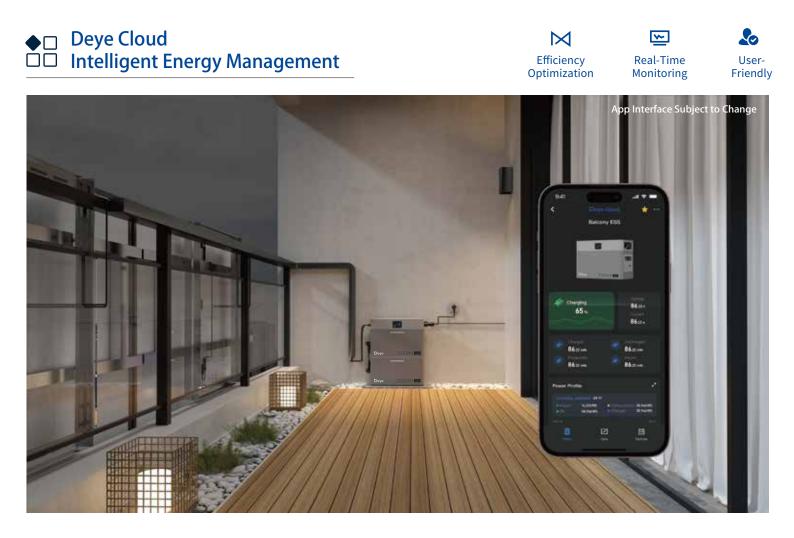
Battery Modules

Warranty

	<image/> <image/>		
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	≥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 ($W \times D \times H$)	450 × 210 × 244mm		
	$450 \times 210 \times 244$ mm		
Weight Approximate (kg)	450 × 210 × 244mm 20		
Weight Approximate (kg) Operating Temperature Range			
	20		
Operating Temperature Range	20 -10°C ~ 50°C		
Operating Temperature Range Max. Operating Altitude	20 -10°C ~ 50°C 2000m		

10 years

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



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 2 :

កែក្រិ Camping Power Solution Empower Your Outdoor Adventure Scenario 3 :

·	
무기	
പ്രചരി	

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.



GET IT ON

Google Play

