

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





Off-Grid Mode <u>Standalone & portable energy storage</u>



96.5%

High Conversion Efficiency

DC-AC conversion efficiency of up to 96.5%

4ms

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



Quiet OperationFanless design with natural cooling





Local Bluetooth Communication Supports offline control via the Deye Cloud APP **1600W**

High-Power PV Input
Supports up to 2200W for PV access
and allows a maximum PV power input of 1600W

IP65

IP65 Protection Rating 10-year standard warranty







Warranty











Model	SUN-BK60-2.0KWH-EU-AM2	SUN-BK80-2.0KWH-EU-AM2	SUN-BK100-2.0KWH-E	
AC Input/Output Data				
Rated AC Input / Output Active Power	600W	800W	1000W	
Max. AC Input / Output Active Power	660W	880W	1100W	
AC Input / Output Frequency and Voltage	50Hz (45Hz ~ 5	55Hz), 60Hz (55Hz ~ 65Hz), L+N+P	E , 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. Continuous AC Passthrough (grid to load)	10A			
DC Injection Current		<0.5%ln		
PV String Input Data				
Max. PV Access Power	1320W	1760W	2200W	
Max. PV Input Power	960W	1280W	1600W	
Max. Operating PV Input Current		18A+18A		
Max. Input Short-Circuit Current	27A+27A			
Rated PV Input Voltage	42.5V (20V ~ 55V)			
Start-up Voltage	25Vdc			
MPPT Voltage Range	20 ~ 55V			
No. of MPP Trackers/No. of Strings MPP Tracker		2/1+1		
Battery Input Data				
Battery Type		LiFePO ₄		
Max.Charging/Discharging Current	25A			
Battery Nominal Energy		2000Wh		
Battery Voltage Range		44.8V ~ 57.6V		
Charging Strategy for Li-ion Battery		Self-adaption to BMS		
General Data				
Communication Interfaces	Wi-Fi, Bluetooth			
Dimension (W \times D \times H)	450 × 210 × 321mm			
Weight Approximate	26kg			
Operating Temperature Range	-10°C ~ 50°C			
Permissible Altitude	2000m			
Permissible Ambient Humidity	15%~85%(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		

10 years







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	
Weight Approximate (kg)	20	
Operating Temperature Range	-10°C ~ 50°C	
Max. Operating Altitude	2000m	
Relative Humidity	0% ~ 95% (No Condensing)	
Certification	UN38.3, IEC 62619, CE	
Installation Style	Floor-Mounted	
Warranty	10 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.







