## Deye

# Micro Hybrid Energy Storage System

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



100 100



1000W Rated Power AC Charge/Discharge



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



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Local Bluetooth Communication Supports offline control via the Deye Cloud APP



a)



**Quiet Operation** Fanless design with natural cooling

**1600W** 

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



IP65 Protection Rating 10-year standard warranty





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



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1000W On-grid and Off-grid Operation



Model

AC Input/Output Data			
Rated AC Input / Output Active Power	600W	800W	1000W
Max. AC Input / Output Active Power	660W	880W	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	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%In		
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 <sub>4</sub>		
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		
Warranty	10 years		



### Battery Modules

Model	AE-F2.0		
Battery Chemistry	LiEePO		
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, 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		
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			

10 years

Deye

Warranty



#### 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 :

កែក៊ី 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.



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