p.n. SUN-BK100-2.0KWH-AA-AM2

BALCONY AIO ENERGY STORAGE SOLUTION

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

Hybrid Grid-Tied Mode Self-consumption
Off-Grid Mode Standalone & portable energy storage
AC-Coupled Mode Upgrade the existing PV balcony system to ESS
UPS-Grade Backup Power Grid-tie and off-grid switchover time is less than 4ms
1000W Rated Power AC Charge/Discharge
Quiet Operation Fanless design with natural cooling

19 Hayezira St. Industrial Zone Ramla 7255616
www.telran.co.il | office@telran.co.il | fax. 03-5214524 | phone: 03-5575110

Micro Hybrid Energy Storage System

2200W PV MPPT Input

2kWh LFP Battery

1000W On-grid and Off-grid Operation

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 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	2200W
Max. PV Input Power	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	$LiFePO_4$
Battery Nominal Voltage	51.2V
Battery Nominal Energy	2000Wh
Battery Operating Voltage	44.8V ~ 57.6V
Battery Cycle Life	≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)

Other Technical Specification

Display	Colorful Touch LCD & APP & Battery LED (SOC, Alarm)
Communication Interfaces	Wi-Fi, Bluetooth
Dimension (W × D × H)	450 × 210 × 321mm
Weight Approximate	26kg
Operating Temperature Range	-10°C ~ 50°C
Max. Operating Altitude	2000m
Relative Humidity	0% ~ 95% (No Condensing)
Safety EMC/ Standard	IEC/EN62109-1, IEC/EN62109-2, IEC/EN61000-6-1/2/3/4
Grid Regulation	NRS 097, IEC 61727/62116, VDE 0126, AS 4777.2, CEI 0-21, EN 50549-1, G98, G99, C10-11, UNE 217002
Battery Certification	UN38.3, IEC 62619
Installation Style	Floor-Mounted

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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

Deye Cloud
Intelligent Energy Management

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.

App Interface Subject to Change

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Technical support *2023