INVEREX
SOLAR ENERGY



BALCONY®
ENERGY STORAGE SYSTEM

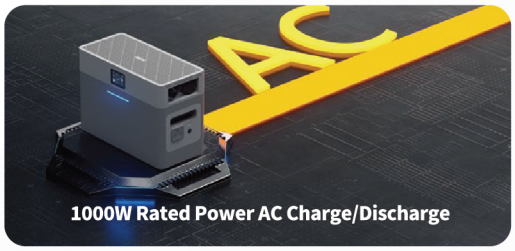
1000WATT WITH 1000Wh
1000WATT WITH 2000Wh

5 YEARS WARRANTY
Terms & Conditions Apply

96.5%
High Conversion Efficiency
DC-AC conversion efficiency of up to 96.5%

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

Quiet Operation
Fanless design with natural cooling



1000W Rated Power AC Charge/Discharge

Local Bluetooth Communication
Supports offline control
via the Inverex 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
5-year standard warranty



Supports Smart IoT System
Smart plug，smart switch，wireless CT



Seamless Scalability
Easily expand the system with additional battery capacity

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1000W WITH 1000Wh
1000W WITH 2000Wh

Model	1H1 (1000W WITH 1000Wh)	1H2 (1000W WITH 2000Wh)
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 Voltage	60V	
Start Up DC Voltage	25Vdc	
MPPT Voltage Range	20 ~ 55V	
Rated PV Input Voltage	42.5V	
Max. PV Input Current	18A+18A	
Max. PV Short-Circuit Current	27A+27A	
Number of MPPT	2	
Battery Technical Specification		
Battery Chemistry	$LiFePO_4$	
Battery Nominal Voltage	51.2V	
Battery Nominal Energy	1000Wh	2000Wh
Battery Operating Voltage Range	44.8V ~ 57.6V	
Max. Charging / Discharging Current	20A/25A	25A
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 (kg)	20	26
Operating Temperature Range	-10°C ~ 50°C, >45°C Derating	
Max. Operating Altitude	2000m	
Relative Humidity	0% ~ 95% (No Condensing)	
Safety EMC / Standard	IEC 62619, UN38.3, IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-6-1, IEC / EN 61000-6-2, IEC / EN 61000-6-3, IEC / EN 61000-6-4	
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	5 years	

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