

Residential ESS

Single-phase AIO
iESS-RD1-G1



Flexible & Convenient

Plug and play interface, easy to install
Battery modular design, flexible expansion
APP monitoring, hold your home energy in real-time



Safe & Reliable

Seamless transition to backup mode when grid power off
High-quality lithium battery, safe and efficient
24 hours backup to ensure power supply



Energy Savings & Eco-friendly

Clean energy self-power and self-consumption to reduce carbon emissions
Built-in EMS to optimize battery management
Charge in daytime and discharge at night peak hours, reduce electricity bill

Data Sheet

Hybrid Inverter	iINV-HB1-3.6KL	iINV-HB1-5.0KL	iINV-HB1-6.0KL
PV input			
Max. Input Power	7200W		10000W
Start-up voltage		120V	
Max. PV voltage		550V	
MPPT range/ nominal		125V-500V/ 360V	
Max. input current		14A/14A	
AC output			
Rated power va	3600VA	5000VA	6000VA
Max. output current	16.0A	21.7A	26.0A
Nominal voltage/ range		230V/ 176V~270V	
Frequency		50/ 60Hz	
EPS Automatic switchover time		<10ms	
General data			
Protection class		IP65	
Weight		25kg	
Display		LCD	
Dimensions (LxWxH)		550x200x520mm/22x8x20inch	
Interface:RS485/ CAN/ DRM/ WIFI		yes/ yes/ yes/ opt	
Certificates		CE, ROHS, G98, G99, EN50549, CEI	
Battery		iBAT-M-5.32L	
Battery number		2pcs	
Nominal capacity		10.64kWh	
Weight		43kg	
Depth of discharge		93%	
Nominal voltage		51.2V	
Working voltage		43.2-57.6V	
Continuous charge/discharge current ^[1]		50A	
Max. charge/discharge current ^[1]		100A	
Battery type		LFP Lithium-ion	
Communication		CAN	
Single-phase AIO		iESS-RD1-G1	
Noise emission (typical)		<35dB	
Operation temperature		- 25℃ ~ +60℃	
Cooling		Natural	
Relative humidity		0~95% (non-condensing)	
Protection class		IP65	
Weight		159kg	
Size (LxWxH)		600x210x1750mm/24x8x69inch	

[1] The current is affected by temperature and SOC.