

Microgrid System

The BES Series is an advanced hybrid micro-grid solution that seamlessly integrates solar panels, battery storage, and a diesel generator. Designed for efficiency and sustainability, it offers the flexibility to charge and discharge power to the grid, making it ideal for peak load support, long-term low-power operation, and backup power.

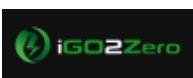
Product Features

- Smart energy management system
- AC/DC power conversion system
- PV charging system
- LiFePO4 liquid-cooled battery pack
- RCD leakage protector
- Plug and play interface
- Leak-proof large capacity tank
- Super-silent structure
- Remote cooling system
- Fire safety system

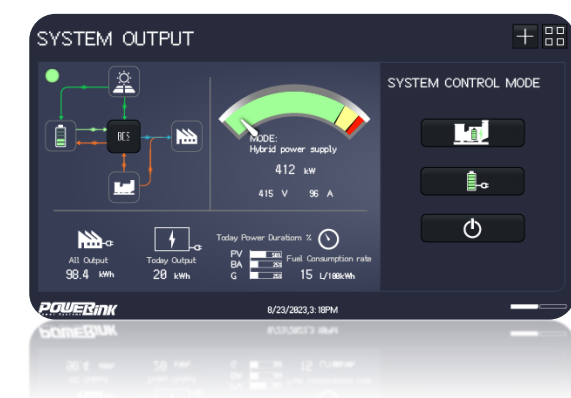
Certification Standards



- UN 38.3
- IEC 62619
- IEC 62477
- IEC 62933-2-1
- CE Declaration of Conformity
- VDE-AR-N 4110
- EN-50549-1
- UL 1973

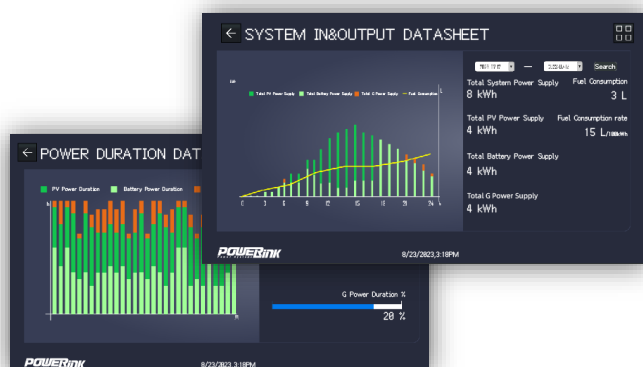


Intelligent Energy Management



Switch the control mode with one button

- Hybrid mode: through smart scheduling and distribution, powered by PV system, battery system, diesel generation system individually or in combination.
- Battery mode: Powered by PV system and battery system.



Flexible generation of daily/monthly/annual operation data reports, users can adjust the system control strategy according to economic benefits.

BES20S SPECIFICATION

BES20S HYBRID ENERGY SYSTEM

Rated power (kVA/kW)	20/20		
Frequency (Hz)	50		
Phase(P)	1		
Power factor (PF)	1		
Noise level(hybrid) dBA@7m	58		
Noise level(battery) dBA@7m	50		
Voltage (AC V)	220	230	240
Current (A)	91	87	83

PV SYSTEM

MPPT rated power (kWp)	21
Rated voltage (DC V)	150-425
Solar panel voltage (DC V)	175
Solar panel capacity (kWp)	2.5

GRID INPUT

Rated power (kVA/kW)	20/20
----------------------	-------

BATTERY SYSTEM

Battery type	LiFePO4
Battery capacity (kWh)	30.7
Battery voltage (DC V)	51.2
Max charging rate	1C
Max discharging rate	1C
Recommended discharging rate	1C

DIESEL GENERATION SYSTEM

Engine brand/model	Kubota / V3300
Rated power (kVA/kW)	30/24
Rated voltage (AC V)	240
Fuel Tank Capacity (L)	100

LOGISTICS DATA

Dimensions (mm)	
Dry Weight (kg)	
40" Loading (Qty)	



* Data is subject to change without prior notice as new products are always developed.
Please contact iGO2Zero or local agent with any doubts or for more information.