

BALANCE POWER

30kW/92kWh Energy Storage System

BALANCE POWER provides power energy storage system solutions for distributed users. The system is modularly designed to support a variety of inverter selections, integrated installation and maintenance; the system can monitor and process AC and DC side operating data and local environmental data in real time. etc., to realize applications such as peak shaving, valley cutting and filling, off-grid backup power supply, photovoltaic energy access and other applications of power storage system.

- ALL IN ONE DESIGN, Small size, high integration
- User-defined operating mode is easy to set
- Support on-grid and off-grid switching
- Installation and access points for supporting microgrid energy devices
- Comprehensive energy management, real-time dynamic operation monitoring
- AI cloud computing data processing, intelligent management and control



BALANCE POWER 30kW/90kWh

Item	System parameters
Total Storage	92kWh, 25℃@0.5c rated
External dimensions	2300*1300*800 (H*W*D)
Weight	Around 1.6T
Rated DC voltage	768V
DC working voltage	672~864V
Sustainable charging power	30kW
Sustainable discharge power	30kW
Conversion efficiency	DC side ≥94% (25℃, 0.5C)
AC Maximum discharge current	Current:45A
Operating environment	Below 2000 meters above sea level
thermal management	HVAC 3.5kW Forced air cooling
On grid / Off grid type (optional)	Manual / Automatic
AC output	3P+N+PE
Rated AC voltage	380V
DC max efficiency	HVAC 3.5kW (0.33CDC-side energy efficiency)
Fire fighting method	Aerosol automatic fire extinguishing
System protection level	IP54
Operating environment	-20℃-50℃(Power down frequency above 45℃)
DC side	System parameters
Nominal voltage	768V
Working voltage range	DC 672-876V
Nominal weight	Around 1.6T
Nominal storage	92kWh
Single unit max charging voltage	3.65V
Single unit min discharging voltage	2.5V
Discharge overcurrent protection current	100A@5S
AC on grid parameters	
Output wiring	3L+N+PE
Nominal power	30kW
Nominal voltage	AC380V
Max current	45A
Voltage range	-15% ~ +15%
Rated frequency	50Hz
Frenquency range	Rated frequency ±3Hz
Power factor	-1~+1
AC off grid parameters	
Output wiring	3L+N+PE
Nominal power	30kW
Nominal voltage	AC380V
Nominal frequency	50Hz
Max current	45A
Voltage accuracy	1%
Frequency accuracy	0.2Hz
Input adjustment rate	1%
Load adjustment rate	1%
Output harmonics	3%@Linear full load
Dynamic Response	60ms@100% Linear load
Unbalanced load capacity	100%