

# Household Energy Storage System (HESS)



SHUANGDENG GROUP

shoto

## Household Energy Storage System (HESS)

Shoto HESS is designed as an integrated micro-grid with long cycle life and low cost Lead-Carbon batteries and PV array accessing. It can run under both islanded and grid-tied modes with outmatched quality, safety and performance. Equipped with flexible and efficient management system, HESS can be adjusted automatically according to the state of the public grid, PV, loads, batteries and electricity price, to make maximum benefit for the clients.

## Products Features

- Support up to 6 HESS parallel connection.
- The operating priority can be set automatically as: PV, battery and public grid.
- Several operating mode can be set, including grid-tied, off-grid and grid-tied back-up.
- Exquisite design for premium quality, superior reliability, low cost, convenient installation and maintenance.



## System parameters

Rated Output Power	4000W
<b>PV INPUT</b>	
Maximum PV Array Power	5000W
Nominal (Max) DC Voltage	360(580VDC)
<b>BATTERY(Lead Carbon)</b>	
Battery Capacity (100%DOD)	9.6kWh
Maximum Charging Current	30A
Nominal DC Voltage	48VDC
<b>AC OUTPUT</b>	
AC Output Voltage	220VAC
Power Factor	≥0.99
<b>AC INPUT</b>	
Acceptable Input Voltage Range	170-280VAC
Maximum AC Input Current	40A
Frequency Range	50/60Hz
<b>GENERAL</b>	
Net Weight	350kg
Dimension, H×W×D	667 mm*620 mm*550mm (battery holder)
Ingress Protection Rating	IP20 (Indoor)
Operating Temperature	0~40°C
Storage Temperature and Humidity Range	Temperature : -15 ~ 40°C Humidity: 0~90%RH

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和绿色能源  
Passion for Storage  
and Green Energy