

iHESS 3P-H-EU series

Three Phase 三相 Residential Energy Storage Inverter 家用储能逆变器

Flexible Rate Tariff 灵活费率电压

Charge from the grid at off-peak mes when energy is cheaper, and discharge at peak times when energy is more expensive.

Safe 安全

Physical and electrical dual isolation
AFCI function integraaon
AC overcurrent, AC overvoltage, Over temperature protection
IP 65 protection grade

Multiple working modes

多种工作模式

iHESS series supports four working modes

1. Self Use
2. Time of Use
3. Backup Power
4. Grid Priority

<10
ms

Quick backup 快速备份

Provides backup load with a transfer tme less than 10 ms.

YEMA 伊发

Product characteristics

产品底部图

A1:EPO/AFCl port	A1 : EPO / AFC端口
A2:BMS port	A2 : BMS端口
A3:Meter/CT port	A3 : 仪表 / CT端口
A4:Dry contact	A4 : 干触点
A5:DRM port	A5 : DRM端口
A6:Parallel port	A6 : 并行端口
A7:Parallel port	A7 : 并行端口
A8:USB port	A8 : USB端口
B:WIFI port	B : WIFI 端口
C:GRID port	C : UPS端口
D:LOAD port	D : GRID端口
E:PV port	E : PV端口
F:Breather valve	F : 通气阀
G:Batory port	G : 电池端口
H:PV Switch(optional)	H : PV开关 (可选)

Circuit block diagram

线路图

The diagram illustrates a power system architecture. On the left, there are two input sources: PV1+/- and PV2+/-, which connect to an EMI block, followed by MPPT1 and MPPT2 blocks. Below these, a BAT+/- input connects to an EMI block, followed by a BUCK/BOOST block. The outputs of the MPPT and BUCK/BOOST blocks connect to a common DC BUS, which includes a capacitor symbol. The DC BUS feeds into an Inverter block, which is connected to an Inverter relay. The Inverter relay connects to a Grid relay. The Grid relay has two paths: one leading to a Grid connection (L and N lines) and another leading to a UPS block. The UPS block includes a capacitor symbol and connects to a Load connection (L and N lines). Both the Grid and Load connections have EMI blocks for electromagnetic interference protection.

Product application diagram 工作原理图

Product application diagram 工作原理图

The diagram illustrates the connection of various components to the iHES5 inverter:

- PV** (Photovoltaic) panel is connected to the iHES5 via a DC line (blue).
- Batt ry pack** (Battery pack) is connected to the iHES5 via a DC line (blue).
- BMS communication** (Battery Management System communication) is connected to the iHES5 via an RS485 line (green dashed).
- CT** (Current Transformer) is connected to the iHES5 via an AC line (red).
- Load at grid connection end** is connected to the iHES5 via an AC line (red).
- wathour meter** (Watt-hour meter) is connected to the iHES5 via an AC line (red).
- power grid** is connected to the iHES5 via an AC line (red).

Legend:

- Blue line: DC
- Red line: AC
- Green dashed line: RS485

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