



iHESS series 1P
Single Phase
Residential Energy Storage Inverter
家用储能逆变器

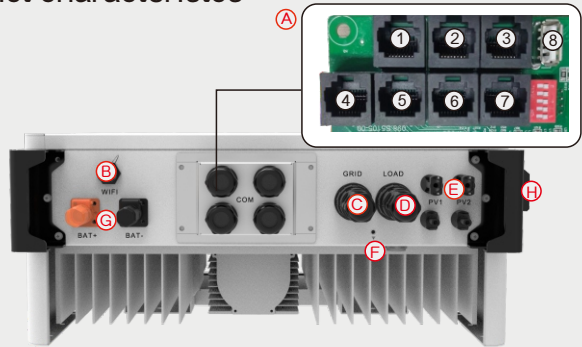
Flexible Rate Tariff 灵活费率电压
Charge from the grid at off-peak mes when energy is cheaper,and discharge at peak times when energy is more expensive.

Safe 安全
Physical and electrical dual isolaton
AFCI functon integraaon
AC overcurrent,AC overvoltage,Over temperature protecton
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

Quick backup 快速备份
Provides backup load with a transfer tme less than 10 ms.

Product characteristics

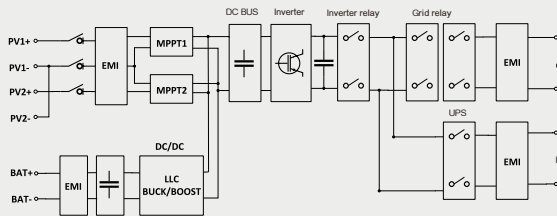


- A1:EPO/AFCI port
A2:BMS port
A3:Meter/CT port
A4:Dry contact
A5:DRM port
A6:Parallel port
A7:Parallel port
A8:USB port

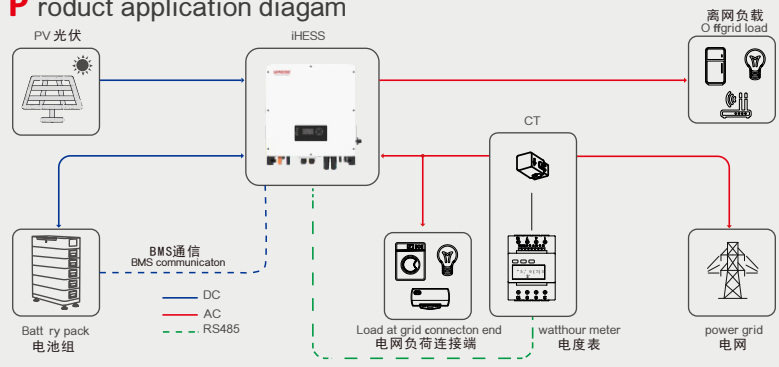
B:WIFI port
C:GRID port
D:LOAD port
E:PV port
F:Breather valve
G:Batery port
H:PV Switch(optional)
- A1 : EPO / AFC端口
A2 : BMS端口
A3 : 仪表 / CT端口
A4 : 干触点
A5 : DRM端口
A6 : 并行端口
A7 : 并行端口
A8 : USB端口

B : WIFI 端口
C : UPS端口
D : GRID端口
E : PV端口
F : 通气阀
G : 电池端口
H : PV开关 (可选)

Circuit block diagram



Product application diagram



Technical Specificaaoon 产品系列		iHESS series			
EFFICIENCY 效率					
DC Max. efficiency 直流最大功率		97.50%			
Europe efficiency 欧洲效率		97%			
PV INPUT 输入 (PV)					
Max. power(kW) 最大功率		5.7	7	8	9.6
Max. DC voltage(V) 最大直流电压		550			
MPPT voltage range(V) MPPT电压范围		90-500			
Max.input current of single MPPT(A) 单个MPPT的最大输入电流		16/16			
MPPT tracker/strings MPPT数量/各最大并联组串数		2/1			
AC OUTPUT(GRID-TIED) 交流输出					
Grid voltage/range(V) 电网电压/范围		230/176~270			
Frequency (Hz) 频率		50 /60			
PF 功率因数		0.8lagging-0.8leading 0.8滞后-0.8超前			
THDi 电流谐波		<3%			
AC output topology 交流输出拓扑		L+N+PE			
BATTERY 电池					
Batery voltage range(V) 蓄电池电压范围		40~58			
Max. charging voltage(V) 最大充电电压		58			
Max. charge/discharge current(A) 最大充放电电流		100/110			
Batery type 电池类型		Lithium /Lead-acid 锂/铅酸			
UPS OUTPUT UPS输出					
Rated power (kW) 额定功率		3.6	4.6	5	6
Rated output voltage(V) 额定输出电压		220/230/240			
Rated output current(A) 额定输出电流		15/16/16.3	19.1/20/20.9	20.8/21.7/22.7	25/26/27.2
Rated frequency (Hz) 额定频率		50/60			
Transfer Time(ms) 自动切换时间		<10			
THDu 电压畸变率		<2%			
Overload capacity 过载能力		110%, 30S/120%, 10S/150%, 0.02S			
PROTECTION & FEATURE 保护和功能					
Ant-Island proteccion 孤岛保护		Yes			
DC Over current protecton 直流过电流保护		Yes			
Insulaton monitoring 绝缘监测		Yes			
Residual current monitoring 剩余电流监测		Yes			
Arc fault protecton 电弧故障保护		Yes(Optional)			
Batery reverse polarity proteccion 电池反极性保护		Yes			
Parallel functon 并行		Yes,12 units 有,可12台并机			
Other protecton 其他保护		AC overcurrent, AC overvoltage, Over temperature protecton 交流过电流、交流过电压、过热保护			
GENERAL PARAMETER 常规参数					
Degree of protecton 防护等级		IP65			
Operaton temperature 工作温度		- 25°C~ 60°C			
Cooling 冷却		Natural 自然的			
Relative humidity 相对湿度		0 ~95%(non-condensing) 0~95% (不凝结的)			
Altitude 海拔		(>2,000m Deratng)			
Dimensions W x D x H (mm) 尺寸		480*210*495			
Net Weight(KG) 重量		24.5	25		
Isolaton transformer 隔离变压器		No			
Self-consumpton(W) 自耗		<5			
DISPLAY AND COMMUNICATION 显示和通信					
Display 显示器		LCD			
Interface 界面		Standard:RS485 ,CAN,DRM ; Optional:WiFi,Bluetooth			
Safety standard 安全标准		CE-EMC/ENIEC 61000-6-3:2021,ENIEC61000-6-1:2019;CEVOC/IEC 62109-1:2010,IEC62109-2:2011,IEC 62477-1: 2022 COC/VDE4105:2018, VDE0124:2020 ;COC/CE10-21:2022 ;COC/TORTypeA/B:2022, OVER25:2020 ; G98:2022, G99:2022			