

Embrace Hydrogen Decarbonize Future

Residential Hydrogen-Electrical Storage System

Power Resource

Solar Power

Power

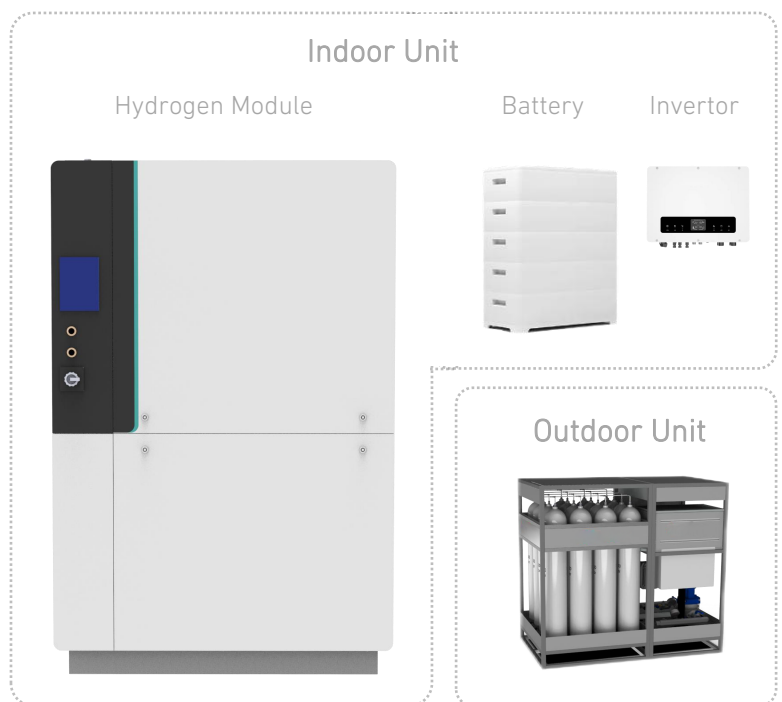
12 KW

Capacity

23 kWh Battery Module

320 kWh Hydrogen Module

(Expandable Hydrogen storage size)



General Dimensions

Energy Unit (Indoor System)

IP20

Module 1 (Water electrolysis + Fuel cell)	Weight	kg	780
	Dimensions	mm*mm*mm	1250*920*2000
Module 2 (Energy Battery)	Weight	kg	247
	Dimensions	mm*mm*mm	670*330*1487
Module 3 (Three Phase Hybrid Inverter)	Weight	kg	27
	Dimensions	mm*mm*mm	548*444*184
Module 4 (DI Water system)	Weight	kg	20
	Dimensions	mm*mm*mm	410*220*420

Hydrogen Storage(Outdoor System)

IP54

Hydrogen cylinders + Compressor	Weight	kg	1800
	Dimensions	mm*mm*mm	2180*1040*1910

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Detailed Datasheet

Electrical Data			
DC Connection to Photovoltaic	Max PV power	kW	13.2
	Number of Independent MPPT Inputs / Strings		2
	Strings per MPP tracker		1
	Max. Convertible Generator Power per MPPT	kW	7.5
	MPPT voltage range	Vd.c	200~850
	Max input current/per string	A	13A/13A
	Max. Input Voltage (Open Terminal Voltage) per MPPT	V	1000
Energy Battery	Energy Battery	kWhel	24
	Usable endrgy	kWhel	23.04
AC output(On-Grid)	AC nominal power	VA	12000
	Max AC apparent power	VA	13200
	Max output current	A	20
	Nominal AC output		50/60Hz;400/350
	AC output range		45/55Hz;280~490Vac(Adj)
	Grid typ		3W/N/PE
	Three-phase unbalance output	%	0~80
	AC voltage(Nominal)	v	400/350
	Nominal Frequency	Hz	45/55
	Grid typ		3W/N/PE
	AC nominal power	VA	12000
	Max AC apparent power	VA	13200
AC output(Back-up)	Max output current	A	20
	Max AC apparent power	VA	10000
	Norminal Output Voltage	V	400/380
	Norminal Output Frequency	HZ	50/60
	Output THDV (@Linear Load)	%	<3
	Max AC apparent power	VA	10000
	Norminal Output Voltage	V	400/380
	Norminal Output Frequency	HZ	50/60
Hydrogen Data			
Water electrolysis system	Hydrogen production flow rate	Nm3/h	0.5
	Electricity consumption	kwh/Nm3 H2	≤4.5
	Hydrogen pressure	Mpa	3
	DI Water consumption	L/Nm3 H2	0.95
	Power consumption	kW	2.8
DI Water system	Resistivity	MΩ.cm	15~18.2
	DI Water production capacity	L/h	20
Fuel Cell System	Hydrogen consumption	Nl/min	110
	Fuel Cell Power Output power	kW	10, max.11.8
	DCDC output Voltage	V	500~650
	DCDC output Current	A	max.50
Hydrogen Storage system	Hydrogen pressor	Mpa	20~30
	Hydrogen Storage pressure	Mpa	20~30
	Gas Cylinder Bundle		16*50L@20Mpa~30MPA
	Hydrogen storage capacity	Nm3 @ 1 Gas Cylinder Budle	approx. 160~240
Thermal Data			
	Usable Process Heat(Water electrolysis + Fuel cell)	kW	max. 10kW
	Temperature Level of Process Heat (warm water treatment in summer)	℃	max.60
Further Information			
Further Information	Energy Source / Emissions		Solar Energy / H2O and O2
	Cloud server		YES