

# EnerMax-HIS

## Household Integrated Energy Storage System



### Product Description

The EnerMax-HIS series is a single phase low-voltage integrated product developed based on the research of the global household photovoltaic energy storage market. The product applies integrated and modular design. Being highly integrated with solar storage inverter, intelligent lithium battery packs, and data collector etc., the capacity of a single energy storage system can reach up to 20 kWh.



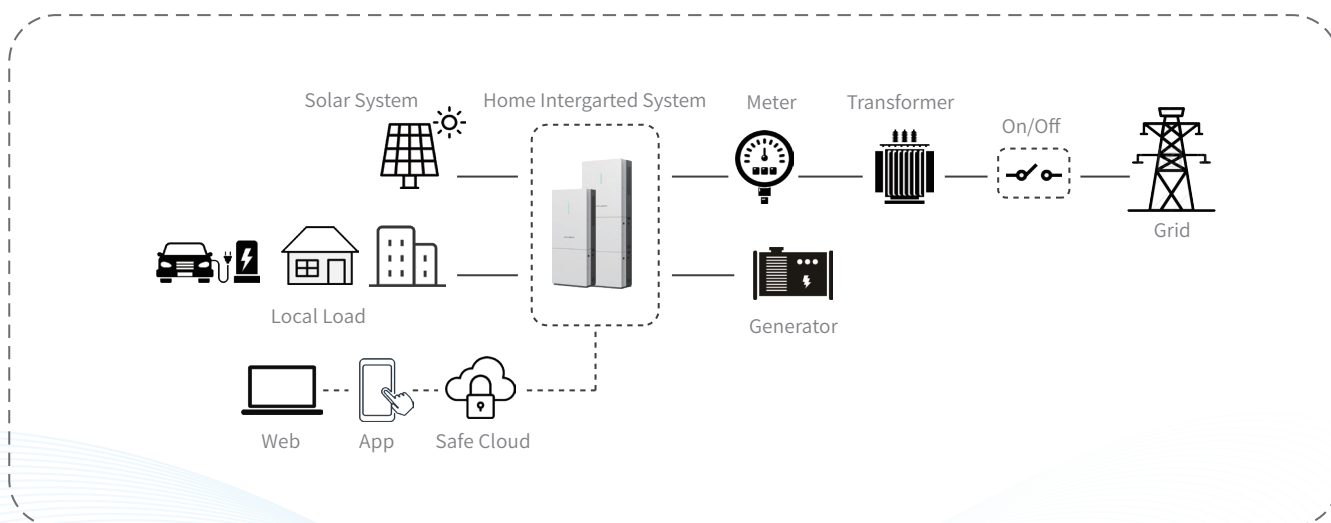
### Product Features

- Integrated product with all-in-one design: simplified system installation and maintenance;
- Secure system design: intelligent BMS and EMS for real-time monitoring of system operation and built-in aerosol fire protection;
- Performance-oriented design: new generation of parallel-connected battery modules, zero capacity loss for more available power;
- Intelligent design: support of smart power supply for 24 hours a day and parallel-connection use with on- and off-grid seamless switching;
- Flexibility: support of multiple systems' parallel connection, maximum of 8 systems can be connected.



### Application Scenario and Topology

- New installed PV energy storage system
- PV system retrofit for energy storage
- Off-grid power supply at weak-power areas



Model	HIS5K5-NA	HIS6K10-NA	HIS8K10-NA	HIS8K15-NA	HIS10K20-NA
Hybrid inverter parameters					
	Input (PV)				
Max. power [kW]	7.5	9	12	12	13
Max. DC voltage [V]	500				
MPPT voltage range [V]	120-500				
MPPT strings	4				
Max. input current of single MPPT [A]	12				
	AC output (on-grid)				
Rated output power [kW]	5	6	8	8	10
Rated grid voltage [V]	120/240 (split phase), 208 (2/3 phase), 230 (single phase)				
Rated grid voltage range [V]	Split phase, 2/3 phase, single phase				
Rate grid frequency [Hz]	50/60				
Max. AC current [A]	28.8	38.3	47.8	38.3	47.8
	AC output (off-grid)				
Rated power [W]	6000	8000	10000	8000	10000
Rated voltage [V]	Split phase, 2/3 phase, single phase				
THDU	< 2%				
Rated frequency [Hz]	50/60				
Rated current [A]	24	28.8	38.3	38.3	47.8
Battery parameters					
Model	HEB48V100				
Capacity of battery pack [kWh]	5	10	10	15	20
Battery type	LFP				
Rated voltage [V]	48				
Rated capacity [Ah]	104				
Max.continuous charge / Discharge current [A]	90/100				
Dimensions [W*D*H,mm]	442*400*130				
Weight [kg]	39				
System parameters					
IP grade	IP65				
Operating temperature range [°C]	Charge: 0~+45; Discharge: -20~+45				
Relative humidity	5%~95% RH (non-condensing)				
Dimensions [W*D*H, mm]	600*350*1450			600*350*2100	
Weight [kg]	84 (excluding battery)			106 (excluding battery)	
Hybrid inverter certificates	UL1741SA all options, UL1699B, CSA 22.2, FCC Part 15, Class B				
Battery certificates	UN38.3, MSDS, IEC62619, CE				

**Note:**

Battery System: 5/10/15/20 kWh can be flexibly configured as required;

hybrid inverter: 6/8/10 kW can be flexibly configured as required; the above information may subject to update without prior notice.

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