

Li+HUB[®]

Li+HUB HV20 Liquid Cooled BESS is designed for residential. Its safest Lithium Iron Phosphate battery technology combining with our advanced thermal management system guarantees the HV20 ultra-safe and incredible long life.

HV20 is convenient connection to any home or building. The IP56 protection rating gives homeowners the freedom to choose the installation location, whether indoors or outdoors.



Ultra Safe

The combination of lithium iron phosphate (LiFePO₄) cell technology, liquid cooled device, advanced thermal management system (TMS), and outdoors installation guarantees HV20 ultra-safe.

Liquid Cooled

The innovative use of liquid cooled technology in HV20 energy storage system can effectively prevent battery thermal runaway by optimizing temperature of the cells, whether charging or discharging.

Advanced TMS

The advanced thermal management system (TMS) can maximize the performance of the liquid cooled system. It guarantees all LiFePO₄ cells can operate within the ideal temperature range.

Easy Installation

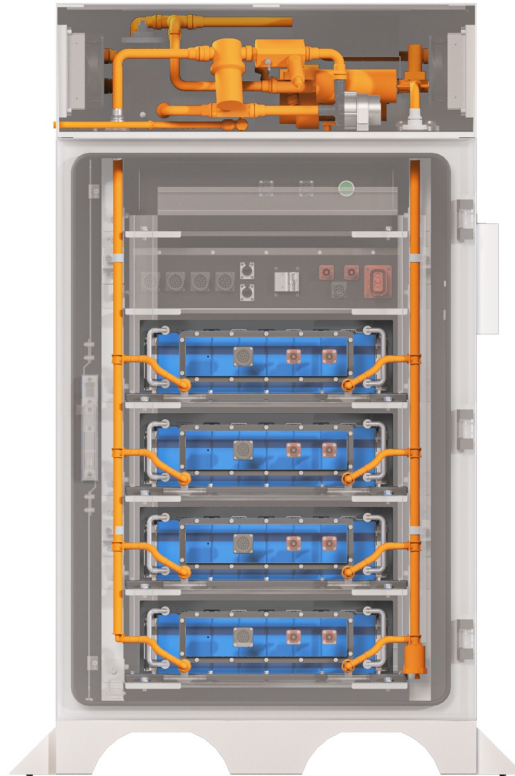
Thanks to the HV20 integrated design concept, our authorized installers can complete the installation of a 20kWh system in 2 hours.

Scalable

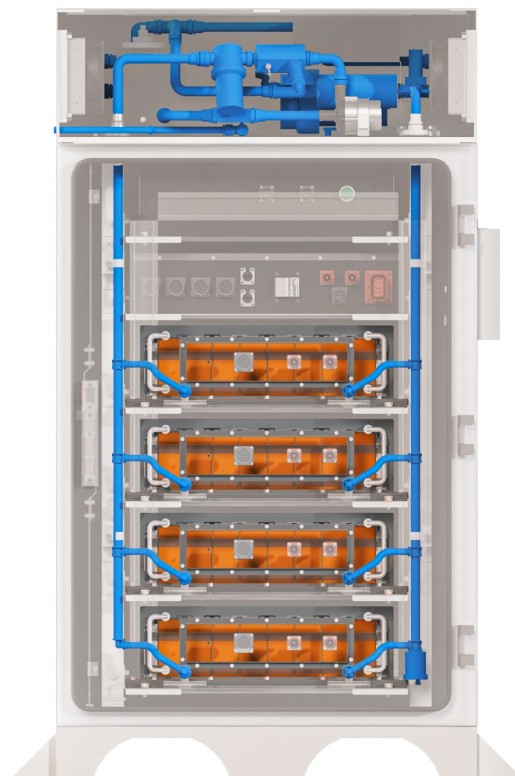
Start with a 20kWh and scalable to 40kWh, 60kWh, 80kWh, or 100kWh by connecting up more HV20 units as energy demands grows.

Active Liquid Cooling System

Heating In Battery Low Temperature



Cooling In Battery High Temperature



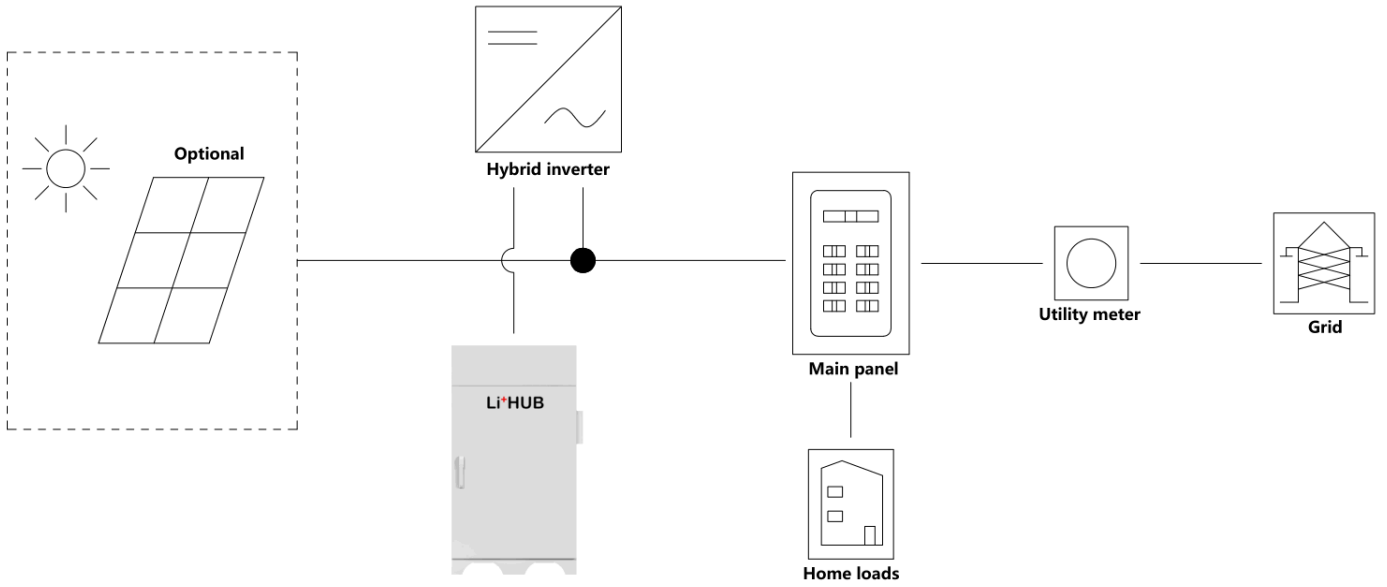
HV20



Battery Energy Storage System (BESS) Model	HV20
Battery Module	MagicPack 2.0
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Battery Module Rated Energy	5.0 kWh
Number of MagicPack2.0	4
BESS Rated Energy	20.0 kWh
Usable Energy	19.0 kWh
Continuous Output Power	10.0 kW
Peak Output Power	12.0 kW
Nominal Voltage (DC)	204.8 V
Operating Voltage Range (DC)	192.0 V ~ 233.6 V
Input/Charge Voltage (DC)	227.2 V ~ 230.4 V
Charge Cut-off Voltage (DC)	233.6 V
Output/Discharge Cut-off Voltage (DC)	192.0 V
Output AC Voltage Range	380/400 VAC 3 phase hybrid inverter (not included)
Output AC Power	10 kVA for continuous 11 kVA for peak
Frequency Range	50/60 Hz
Round Trip Efficiency @ AC coupled	90%
Round Trip Efficiency @ DC coupled	95%
Number of Cycles	10,000 @ 80% DOD
Warranty	10 years limited warranty
Communication Interface	RS485, or CAN
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Conditions	-20°C to 30°C (-4°F to 86°F) State of Charge (50% SoC)
Relative Humidity (RH)	Up to 100%, condensing
Ingress Rating	IP56
Cooling	Active Liquid Cooled
Cooling Power (W)	500 W
Heating Power (W)	1,000 W
Noise @ 1m distance	<60dbA @ 25°C
Dimensions (W x D x H)	828 x 568 x 1442 mm / 32.6 x 22.4 x 56.8 inch
Weight	360 kg / 794 lb
Environment	Indoor and outdoor
Altitude	2000 m
Installation	Floor mount
Environmental	RoHS Directive 2011/65/EU
Certifications (pending)	UL 1973, UL 9540 EN62619, EN62477-1, EN61000-6-1/3
Shipping	UN38.3 UN3480, Class 9

Typical System Layouts

Whole Home Backup



Partial Home Backup

