





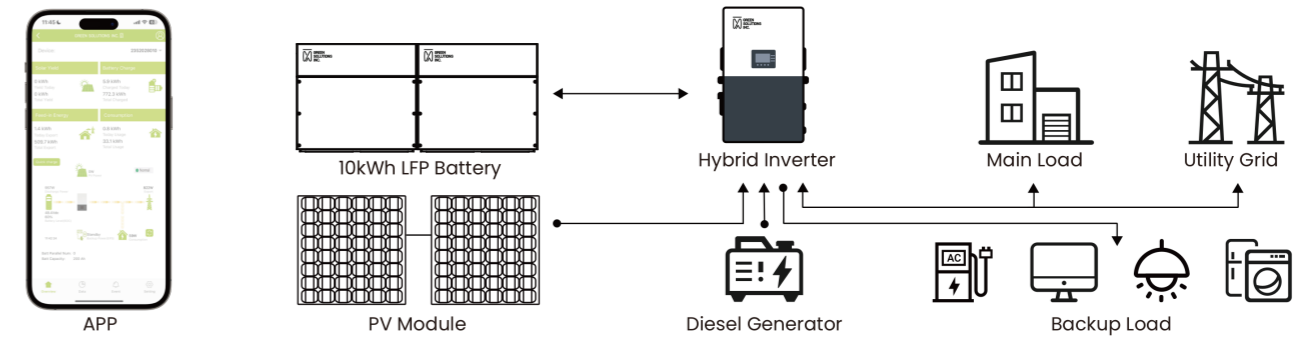
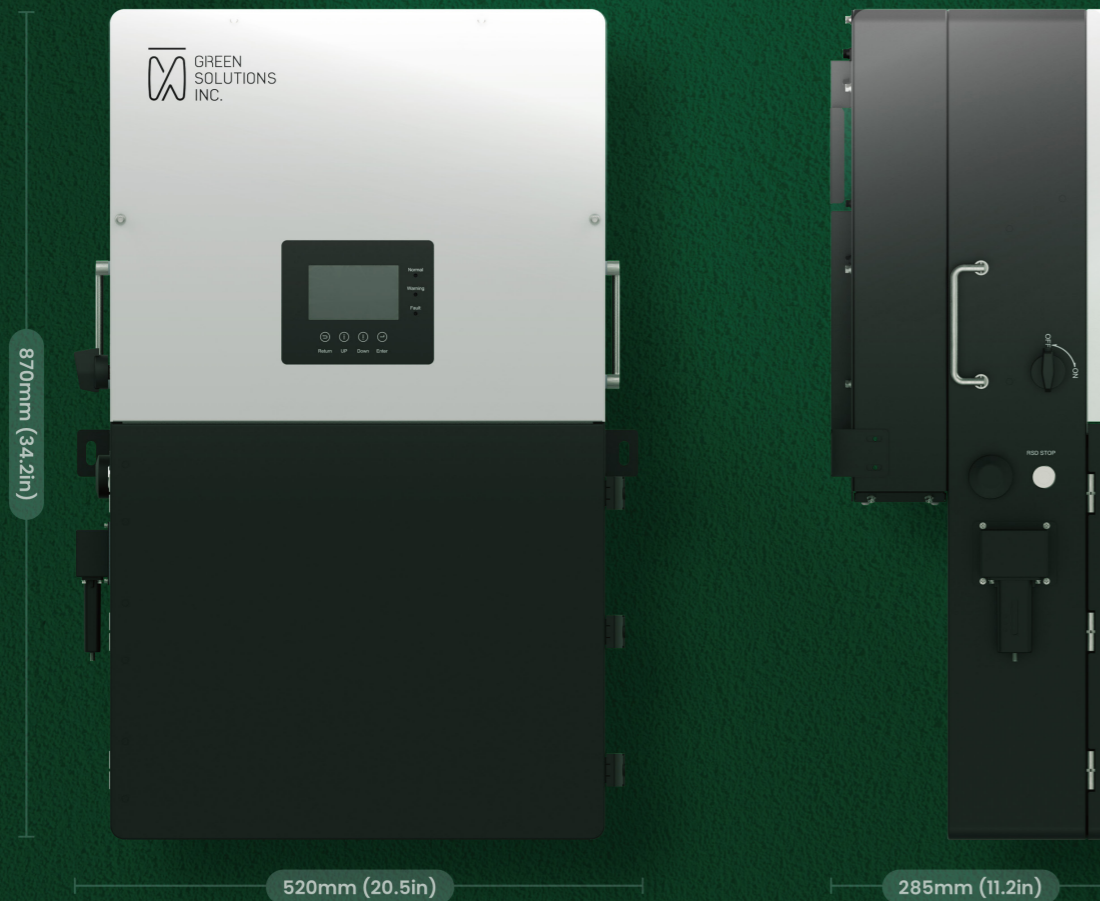


# H12K-US Hybrid Inverter

High Power Whole Home Backup Inverter

- 12 kW** High AC On/Off-Grid Power (12 kWac)  Support up-to 10 Inverters Connected in Parallel
-  Support Both AC and DC Coupling  Integrated UPS Module Enables Seamless On/Off Grid Switching
-  Built-In 200Aac Grid-Bypass Switch  Support Three-Phase Formation with 2 to 3 Single-Phase Inverters
- 18 kW** 3 Solar MPPT Inputs (Up to 18 kWdc Max)  Dedicated Generator Input



### PV Input

Max. usable input current(A)	25/15/15
Max. short circuit input current(A)	31/19/19
Start input voltage(V)	100
Startup voltage(V)	140
Full power MPPT voltage range(V)	230-500
DC nominal voltage(V) MPPT tracker	360
DC voltage range(V)	100-600
MPP operating voltage range(V)	120-500
Max. power(W)	18000
Number of MPPT	3
Inputs per MPPT	2/1/1

### General

Integrated disconnect	DC switch
Reverse polarity protection	Yes
DC switch rating for each MPPT	Yes
Output over-voltage protection varistor	Yes
Output over current protection	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
Pole sensitive leakage current Monitoring unit	Yes
AFCI	Yes
RSD	Yes
Dimensions(mm)	870*520*285mm (34.2*20.5*11.2in)
Weight(kg)	55kg(96.8 lbs)
Degree of protection	NEMA4X / IP 65
Cooling concept	FAN
Topology	Transformer-less
Relative humidity	0-100%
Altitude(m)	<2000m
Operating temperature range (°C)	-25~60°C,>45°C Derating
Internal consumption(W)	<15W
Display	Touch color screen
Communication interface	Rs485/ Wi-Fi/ CAN
Standard warranty	5 years (10 years extendable at cost)

### AC Grid Output

Nominal/Max. Output Current(A)	50
Rated voltage(V)	240
Operating voltage range(V)	180-270
Continuous power output(W)	@240V 12000/ @208V 10400
Operating frequency range(Hz)	55-65
Phase shift	0.99@full load
Reactive power adjust range	-0.8~+0.8 leading Adjustable
THDI	<3%
Sync inrush current(A)	35

### UPS AC Output

Nominal output current(A)	50
Nominal output voltage(V)	[240][120/240] [120/208]
Continuous output power(VA)	@240V 12000/ @208V 10400
Operating frequency(Hz)	60
Peak power(VA)	2xPn, 0.5s
THDV	<3%
Switching Time (ms)	<20

### Battery Input

Battery type	Lead-acid battery/ Lithium battery
Max. charge/discharge current(A)	250
Voltage range(V)	40-60

### Efficiency

Max. Efficiency @ PV to grid	97.50%
Max. Efficiency @ battery to grid	94%
CEC Efficiency	96.90%

### Certification

Inverter Only E5000, SAI7-18, SA:2018, CSA STD. C22.2 No.107.1 and 330, UL STD.1741, 1741SB, UL1998:2018IEEE STD.1547 and 1547.1, IEEE STD. HECO SRD-IEEE-1547.1, ETL, CETL, America CEC List, NEC, section690.12, FCC, CEC, UL9540, CSA STD. C22.2 No.107.1, UL STD.1741, 1741SB