

# HYBRID SOLAR SYSTEM

230/380Vac

230/400Vac

3

EU Voltage

SP12KW3-HY GRID

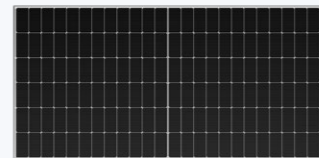


# SOLAR SYSTEM KIT

SP12KW3-HY GRID

3

EU Voltage



Solar Panel



Lithium Battery



Solar Inverter



Wifi Monitor



PV Cable



MC4 Connector



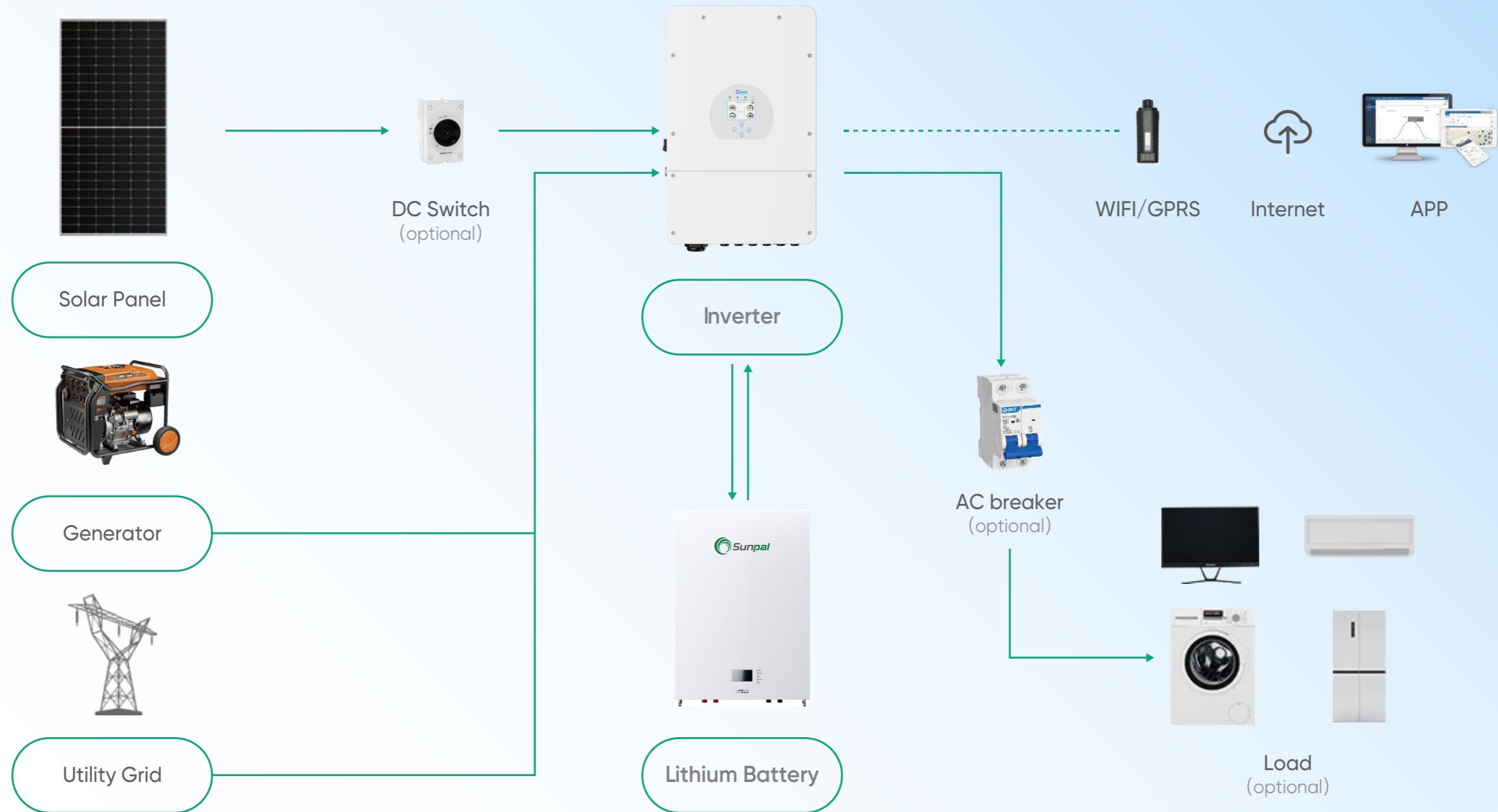
Mounting Bracket



DC Switch/AC Breaker (Optional)

# SP12KW3 -HY GRID

Residential Hybrid Solar System



**HiMAX 5N**

# MONO-CRYSTALLINE SILICON **585W**

N-type TOPCon BIFACIAL DOUBLE GLASS Solar Module

- Positive power tolerance (0~+5W) guaranteed
- Reduced resistive loss with lower operating current
- Higher energy yield with lower operating current
- Reduced hot spot risk with optimized electrical design and lower operating current

**STC**

Testing Condition

**52.03V**

Open Circuit Voltage(Voc/V)

**14.36A**

Short Circuit Current(Isc/A)

**42.86V**

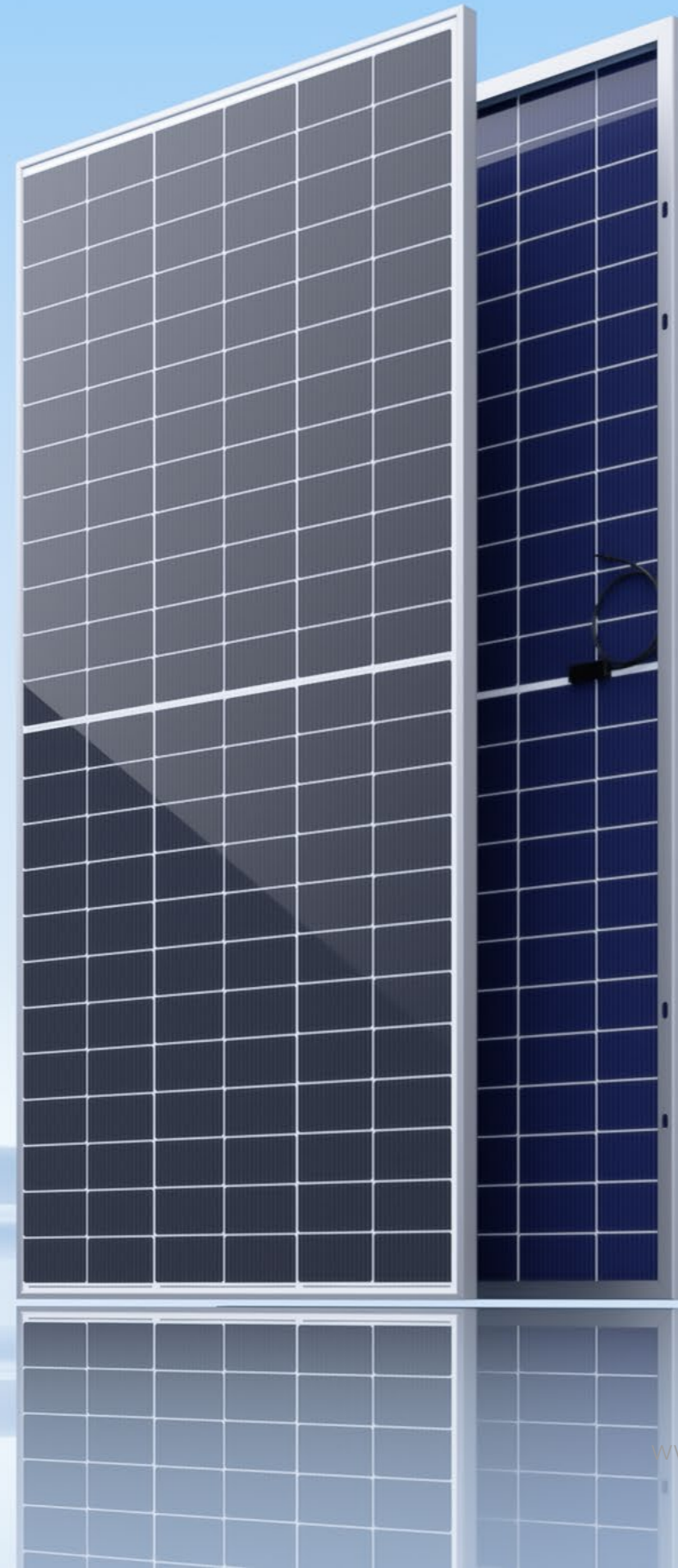
Voltage at Maximum Power(Vmp/V)

**13.65A**

Current at Maximum Power(Imp/A)

**22.64%**

Module Efficiency (%)



48V 200AH

# WALL-MOUNTED LiFePO4 BATTERY

200Ah

Nominal Capacity

100A


Max. Discharging Current

48V


Nominal Voltage

100A

Max. Charging Current

 Long Life And Safety


6000 cycles with 80% DOD, high - quality prismatic battery cell

 Intelligent


With independent smart BMS system, manages power output effectively

 Compatibility

Compatible with most of the available Hybrid inverters

 Backup Protection

Stores energy, detects outages and automatically becomes energy source

 Plug In And Play

Plug in batteries then working, easy to install and set up

 Safety Cert

UL1642, IEC62619, CE, UN38.3, MSDS



# SUN-12K- SG04LP3-EU

## Solar Inverter

- Advanced MPPT with up to 99.9% efficiency
- Up to 6 units in parallel connection
- Easy to install and simple to use
- Supports Li-ion battery BMS communication

**12000W**

Rated Output Power

**50Hz/60Hz**

Rated Output Frequency

**2**

No. of MPPT

**220/380, 230/400**

Rated Output Voltage

**200-650Vdc**

MPPT Voltage Range:

**48Vdc**

Rated Battery Voltage



# DC CABLE

## Single-core PV Cable

- Product name: H1Z2Z2-K
- Size: 1×4mm<sup>2</sup>
- Standard Basis EN50618:2014



# 1000VDC

30A

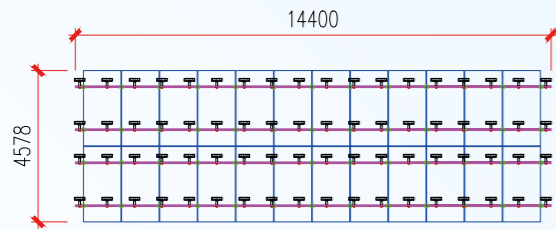
## MC4 Connector

- Style: Photovoltaic Connector
- Size: PV005
- Standard Basis IEC 62852: 2014



# PV MODULES INSTALL

12KW



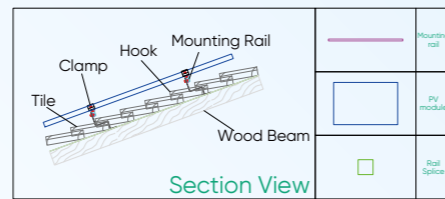
**Description:**

Installation area: **Glazed tile roof**  
 Mounting form: **Glazed tile roof installation**  
 Installation Quantity: **24 pieces**

Dual rows of 24 modules in one array

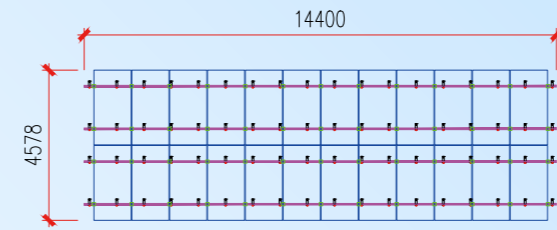
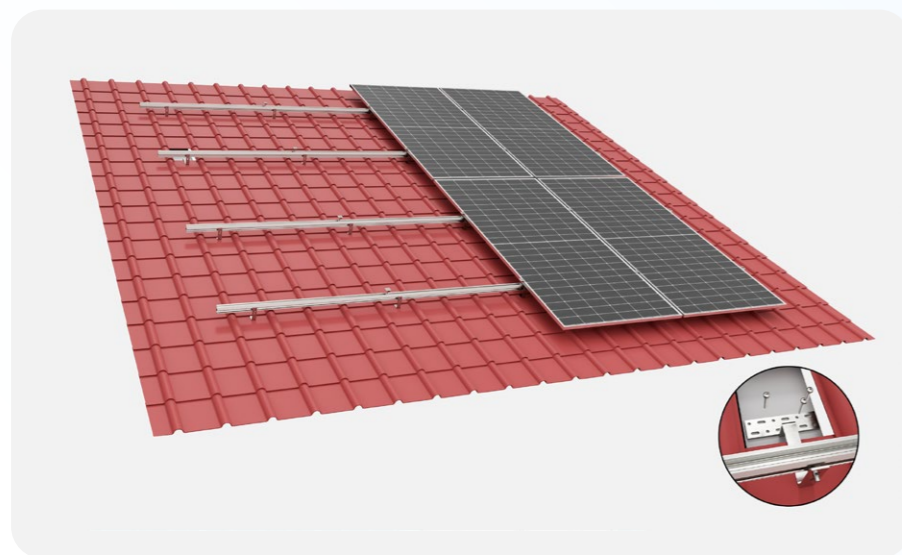
The module grounding wire is connected to the bracket, and all inverters must be grounded.

If this drawing is not consistent with the site, it will be adjusted according to the actual situation on site.



LAYOUT PLAN

SCALE 1:100



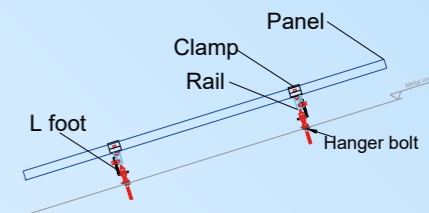
**Description:**

Installation area: **Metal roof**  
 Mounting form: **Metal roof flat installation**  
 Installation Quantity: **24 pieces**

Dual rows of 24 modules in one array.

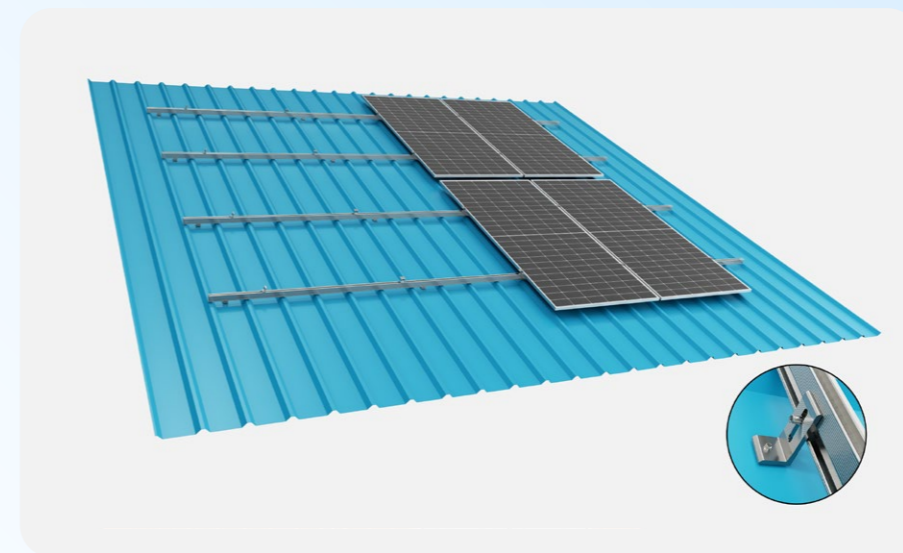
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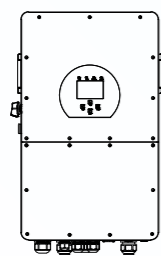
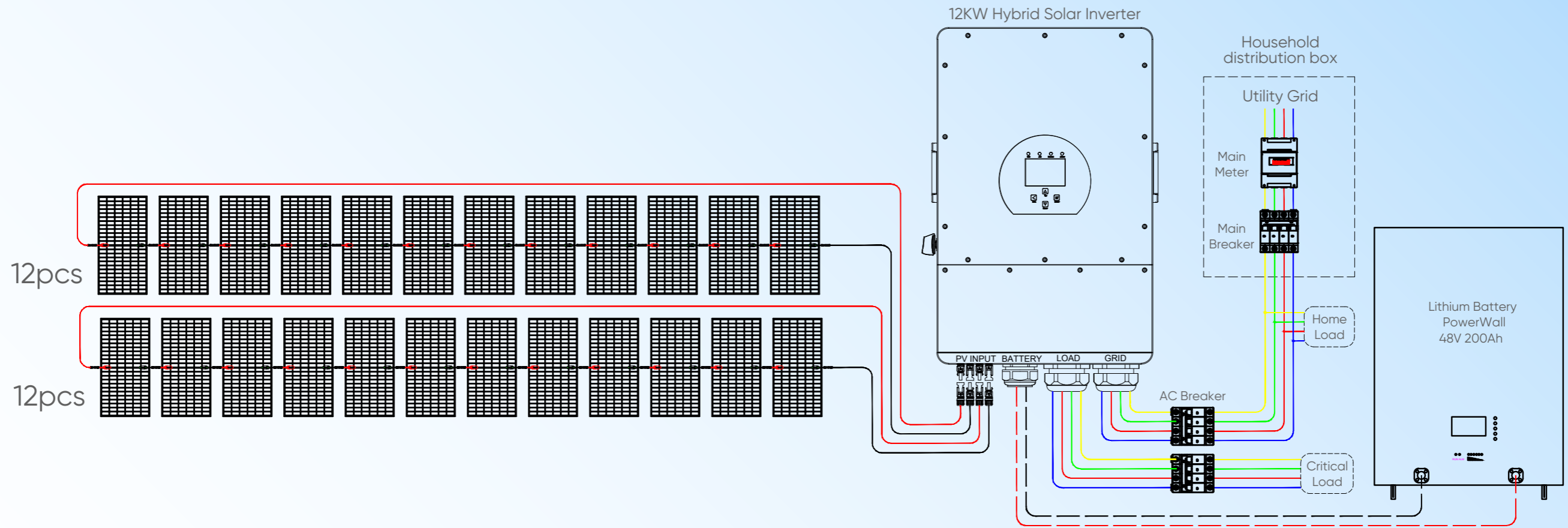


LAYOUT PLAN

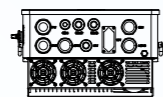
SCALE 1:100



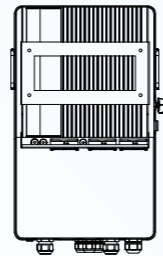
# 12KW3 HY-GRID SOLAR SYSTEM



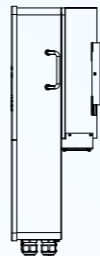
Desk box front



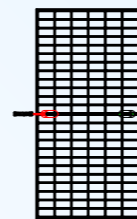
Desk box bottom



Desk box back



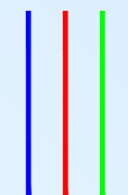
Desk box side



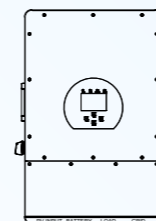
Solar Module



PV Cable



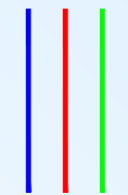
Grid-AC Cable



Hybrid Inverter



Battery Cable



Load-AC Cable