

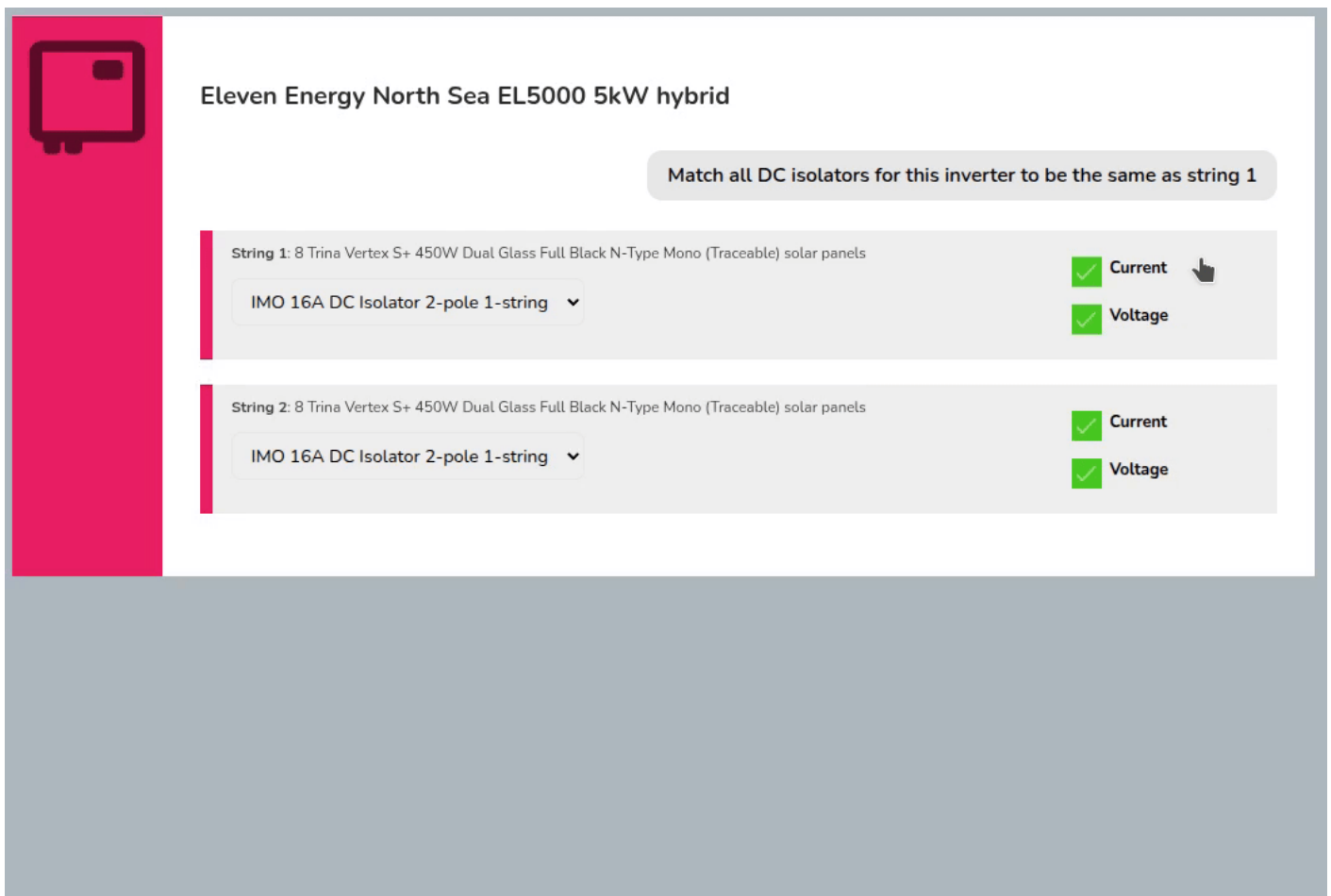
# Electrical task

This is the final stage of the kit builder and is where you specify **isolators**, **cables**, **meters** and any other kit needed in the system. Most components are pre-selected automatically based on your panel and inverter choices. You can review and adjust them as needed.

## DC Isolators

Choose a DC isolator for each inverter input.

- Click on the **Current** and **Voltage** sections to view full details.
- Use *Match all DC isolators...* button to **bulk edit** DC isolators for that inverter.



The screenshot displays the configuration interface for an **Eleven Energy North Sea EL5000 5kW hybrid** inverter. A button at the top right allows to **Match all DC isolators for this inverter to be the same as string 1**. Below, two strings of solar panels are listed:

- String 1:** 8 Trina Vertex S+ 450W Dual Glass Full Black N-Type Mono (Traceable) solar panels. The selected DC isolator is **IMO 16A DC Isolator 2-pole 1-string**. The **Current** and **Voltage** sections are both checked.
- String 2:** 8 Trina Vertex S+ 450W Dual Glass Full Black N-Type Mono (Traceable) solar panels. The selected DC isolator is **IMO 16A DC Isolator 2-pole 1-string**. The **Current** and **Voltage** sections are both checked.

Once selected, you can click onto the *Cables* section

## DC Isolators

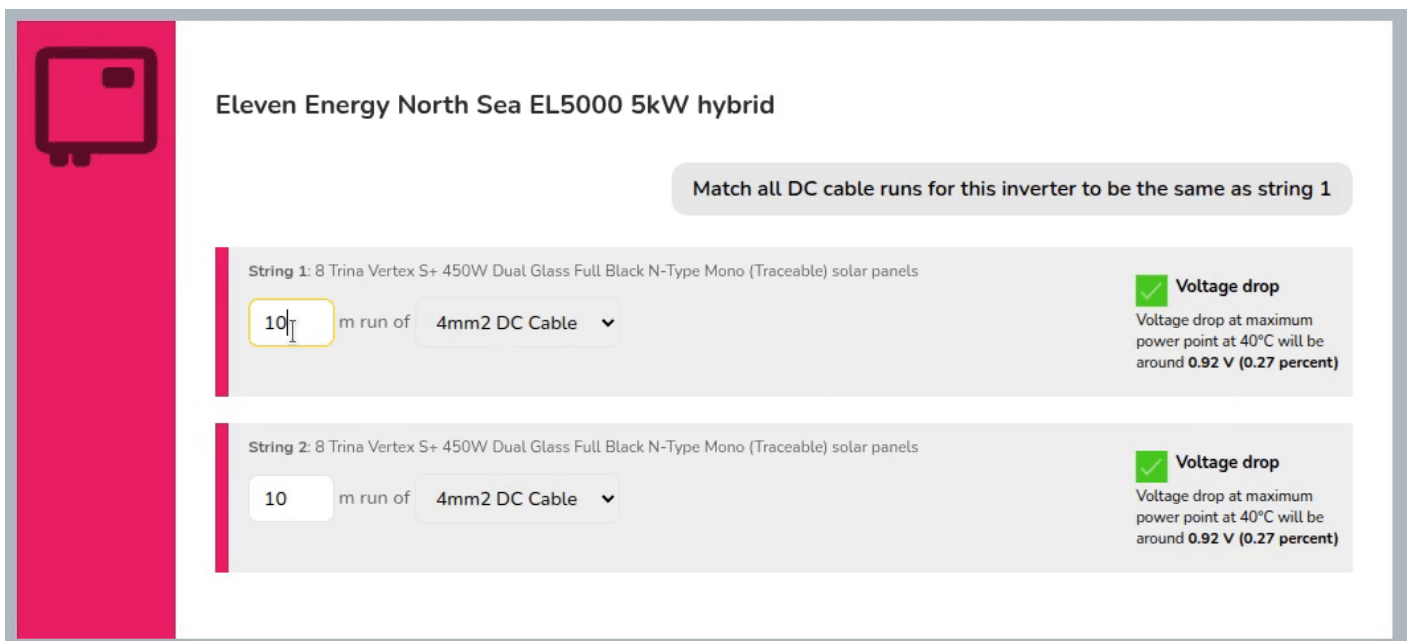
Choose a DC isolator for every inverter input and check that it has appropriate voltage and current ratings.

Next: cables

## DC cable and connectors

Specify the length of run and cable cross section of the DC cable to check voltage drop.

- Enter the **DC cable run lengths** and select the **size**.
- Use *Match all DC cable runs...* button to **bulk edit** cable size and lengths for that inverter.



Eleven Energy North Sea EL5000 5kW hybrid

Match all DC cable runs for this inverter to be the same as string 1

String 1: 8 Trina Vertex S+ 450W Dual Glass Full Black N-Type Mono (Traceable) solar panels

10 m run of 4mm2 DC Cable

**✓ Voltage drop**  
Voltage drop at maximum power point at 40°C will be around **0.92 V (0.27 percent)**

String 2: 8 Trina Vertex S+ 450W Dual Glass Full Black N-Type Mono (Traceable) solar panels

10 m run of 4mm2 DC Cable

**✓ Voltage drop**  
Voltage drop at maximum power point at 40°C will be around **0.92 V (0.27 percent)**

## SolShare

Before navigating to the AC Isolators section, you'll see the option to add a SolShare to the project. If you'd like this included in the project, click SolShare.

## DC cable and connectors


Specify the length of run and cable cross section of the DC cable to check voltage drop.

Back

SolShare

Next: AC Isolators

1. Select which inverters you wish to be paired with SolShare
2. Select how many connections the SolShare will be supplying.



### Growatt MOD 13000 TL3-X 3ph

Paired with SolShare:

Number of single phase connections:

Number of three phase connections:

Size of circuit breaker for SolShare:  A

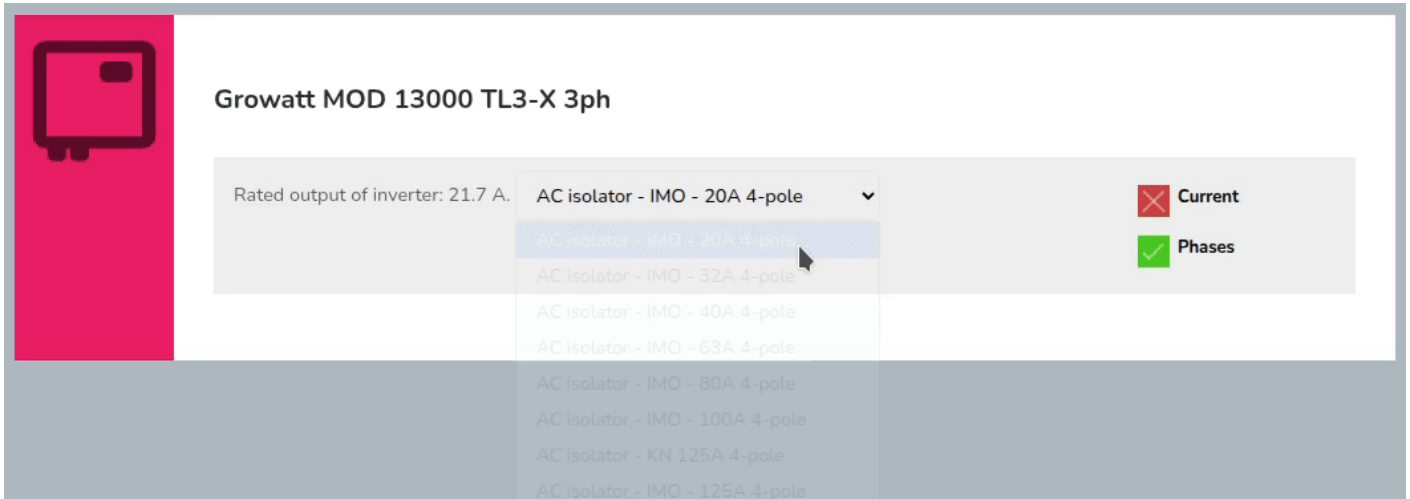
Location of flat's energy meters:

- ACOutput**  
The output current of this inverter is under 35A, inside the SolShare limits
- Phases**  
Correct inverter phase for SolShare, only three phase (or three single phase) inverters are valid for SolShare
- Battery**  
This is not an AC inverter, so can be used as an input to the SolShare box

If the selected inverter is not compatible with Solshare, you will not be able to add one. For guidance on designing a SolShare system, chat to your [Midsummer account handler](#). SolShare requires a minimum of 6x single-phase or 2x three-phase connections. The site must have a multi-service distribution board (MSDB) supplied by 1x incoming supply to enable SolShare system to work. **Read more about Solshare [here](#).**

## AC Isolators

Specify an appropriate AC isolator for each inverter in your project, and check that it has an appropriate current rating.



Growatt MOD 13000 TL3-X 3ph

Rated output of inverter: 21.7 A.

AC isolator - IMO - 20A 4-pole

AC isolator - IMO - 20A 4-pole

AC isolator - IMO - 32A 4-pole

AC isolator - IMO - 40A 4-pole

AC isolator - IMO - 63A 4-pole

AC isolator - IMO - 80A 4-pole

AC isolator - IMO - 100A 4-pole

AC isolator - KN 125A 4-pole

AC isolator - IMO - 125A 4-pole

Current

Phases

## Meter

In this section, you'll be able to select from compatible generation meters.

If no meters supplied by Midsummer are compatible, you will only have the option to select *No meter thanks*. You can also [add a custom meter](#).

## Extras

Add monitoring, immersion controllers, battery storage and accessories to your project.

Any extras required for components you've already added to the system will be selected automatically. Increase the count of any other extras you'd like included in the project.

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