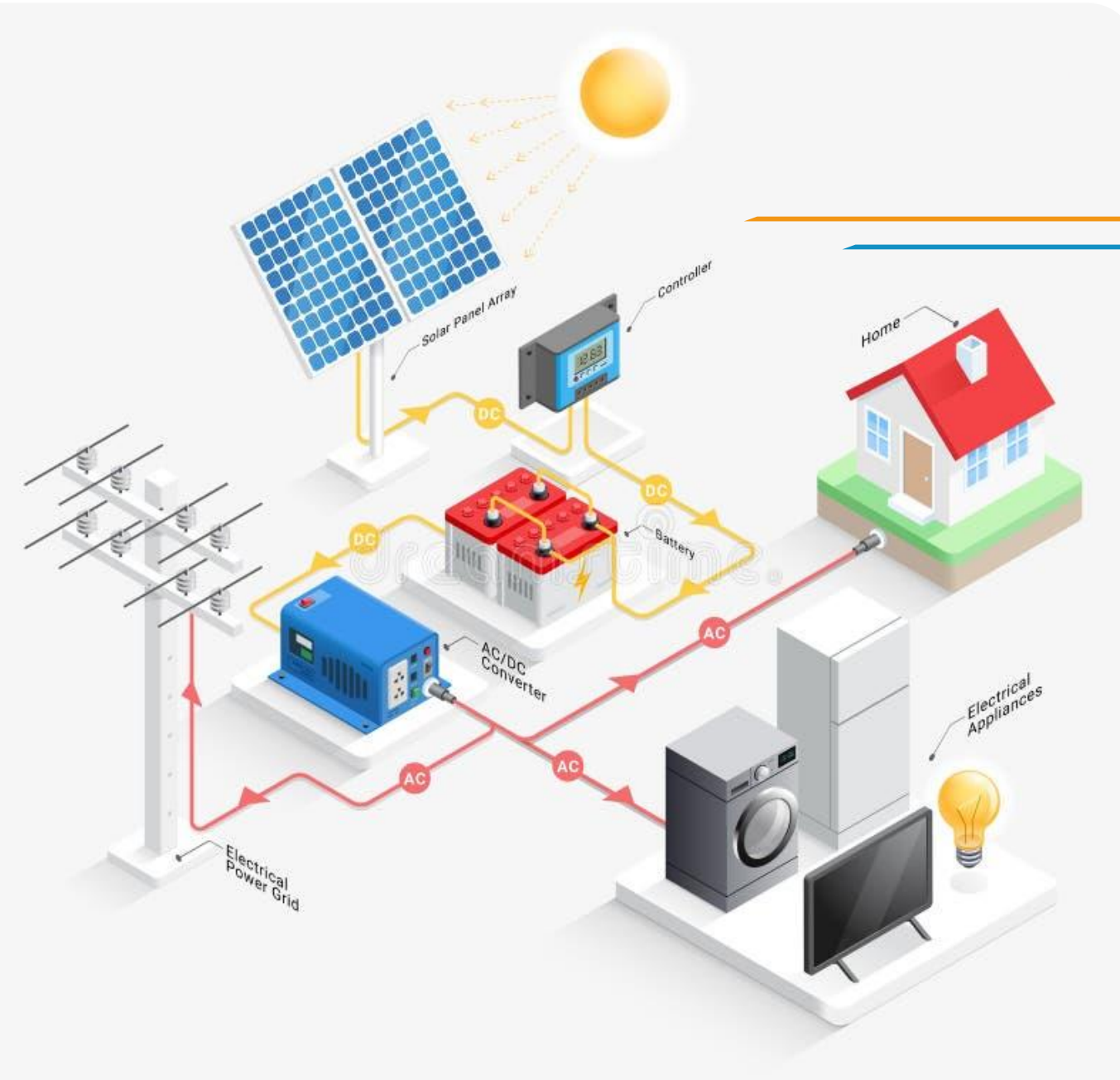
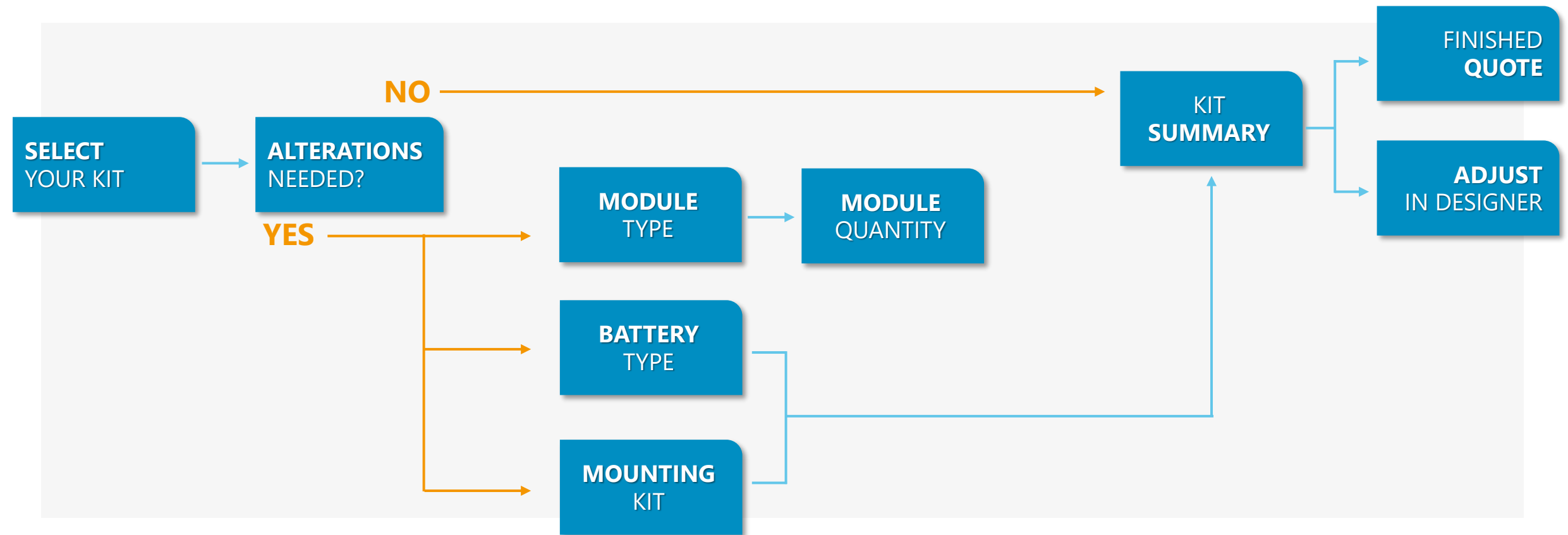


HOW TO USE SEGENSOLAR KIT BUILDER



INTRODUCTION

Our aim is always to make it simple to find everything you need for your chosen system type and to provide all the information you need to install it successfully. We all know storage systems can be complicated and include many components that must be compatible with each other. So, we have developed a very simple new process for choosing a system type, swapping some of the core components as needed and then getting your quote: **KIT BUILDER**.



BENEFITS OF USING KIT BUILDER

THERE ARE SEVERAL REASONS WHY USING KIT BUILDER SHOULD BE
YOUR STANDARD METHOD FOR CREATING YOUR SEGENSOLAR QUOTES:

COMPLETE & ACCURATE

Select from a range of kits that have all been carefully chosen by our experienced Technical Team. The kits feature only products that are compatible with each other and within the operating tolerances. They include all the smaller components such as cables, connectors and disconnectors that are easy to forget.

SIMPLICITY

Simply select your kit from the range. If you'd like something slightly different, you can choose from a variety of compatible panels and batteries.

SUPER SPEEDY

Kit Builder is the fastest way to generate a quote with a complete bill of materials. Less than five clicks and you're done.

BEST PRICE GUARANTEED

Our portal will apply an additional discount to any quotes generated from Kit Builder. You won't find lower prices anywhere else on the portal.

EMPOWERING KNOWLEDGE

Kit Builder only offers product combinations that are compatible and displays useful information about the kit explaining what amount of power the kit will provide and for how long. It also explains details of the products in the kit, such as why the inverter requires a certain minimum number of panels.

30-DAY PRICE FIX


Pricing on all quotes generated from Kit Builder is locked in for 30 days, providing protection from volatile exchange rates.

READY TO DISPATCH SOONER

A quote generated through Kit Builder or any other SegenSolar design tool is automatically deemed compatible, so your order will be ready to ship sooner than if the quote was manually created.

FINDING KIT BUILDER

KIT BUILDER IS ACCESSED FROM THE PORTAL HOMEPAGE USING A DROPDOWN MENU ITEM. WE'VE SPLIT THE VARIOUS KITS INTO SYSTEM TYPES AND THERE'S A SUB-HEADING FOR EACH. CLICK THE SYSTEM TYPE YOU WANT TO BE TAKEN TO THOSE KITS.

Home	Products	Place Orders	News	Documentation	Case Studies	Training & Events	My Account	Configuration Tools	Kit Builder	FAQ	
										OFF-GRID KITS: Systems that include an off-grid inverter that is not NRS 097 certified.	Off-Grid Kits
										SELF-CONSUMPTION KITS: Systems that include grid-connected hybrid inverters and also a PV array.	Self-Consumption Kits
										BACKUP ONLY KITS: Systems the consist of an inverter/charger and batteries only, with no PV array.	Backup Only Kits
										PV SYSTEM KITS: Systems that include a grid-tied PV inverter and array with no storage.	PV System Kits
										Kit Builder User Guide	



KIT-KODAK-7.2
KODAK
KODAK OG-7.2 7.2kW 48V
Off-Grid Kit



KIT-KODAK-LP3.2
KODAK
KODAK OG-LP3.2 - 3.2kW
24V Off-Grid Kit



KIT-KODAK-LP5.6
KODAK
KODAK OG LP5.6 - 5.6kW
48V Off-Grid Kit

The inverter typically forms the centre of a PV storage system and so our kits are built around the inverter. **Select a kit based on the inverter you'd like to use and you will be directed to that kit in Kit Builder.**

THE KIT BUILDER SCREEN

HERE'S AN OVERVIEW OF A TYPICAL KIT ON THE KIT BUILDER SCREEN

The default mounting type is for a tiled roof. You can change the mounting type, roof type or module orientation if needed.

KIT-KODAK-7.2 - Kit for OG-7.2

Module: Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame

Module Quantity: 4

Mounting Types: KD Solar On Roof

Roof Type: Corrugated

Mounting Distance (mm): 800

Rows: 2

Panel Orientation: Portrait

Inverter: KODAK Solar Off-Grid Inverter MAX 7.2kW 48V

Battery: Kodak 3.68kWh 48V Battery Module (Pack of 2) (BL3 6-2)

Multiple Designs: 1

The inverter is fixed, but the **PV module type, quantity and battery type** can be updated by choosing from dropdown lists.

System Information

Your chosen system consists of a KODAK Solar Off-Grid Inverter MAX 7.2kW 48V inverter with 4 Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6 modules and Kodak 3.68kWh 48V Battery Module (Pack of 2).

This system can discharge a maximum 7560W of AC energy for powering household loads. If fully charged, the battery would sustain that rate for about 0 hours. In order to maximise the performance of the system, it is best to discharge the battery slower by avoiding high peak loads. This system would power typical household loads of 1kW for about 7.37 hours.

If your customer requires their battery capacity to last for longer, consider selecting a higher capacity battery, or increasing the quantity of PV modules would increase the amount of energy available to charge the battery.

Kit Builder shows a selection of the best battery and module options based on the rating of the inverter and ease of installation. A wider range of options and accessories may be available in the full Design Tool using the 'Edit Design' link.

Detailed Engineering Design for the Project, which shall be prepared by the Concessionaire pursuant to the Concession Agreement and the Minimum Performance Standards and Specifications in other words "the actual detailed engineering designs, plans/drawings, and cost estimates, supported by design analysis and calculations, brochures, catalogues, and technical specifications" shall be the responsibility of the Client's (Engineer) even after the use of Kit Builder.

Major System Components



The main components of the kit (inverter, battery, and panels) are shown with clear images. They will update to match your selections.

At the bottom, the **system summary** is shown including the total price for all the components.

Information about what the kit includes, how much power it can provide and how long typical loads can be powered for is displayed here.

Using cell temperatures from 0°C to 70°C

System	Mounting	Total Price
4 x Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6	2,220W	
1 x KODAK Solar Off-Grid MAX 7.2kW 48V @ 48v	7.2kW	R72 929,05 (R32,85/Wp)
	KD Solar On Roof (4.52m x 2.27m)	

[View kit in Quick Quote](#)

[Edit Design](#) [View Quote](#)

From here, you can choose to **view your new quote** or, if needed, progress through to the Design Tool for further adjustments.

THE KIT BUILDER SCREEN

HERE'S AN OVERVIEW OF A TYPICAL KIT ON THE KIT BUILDER SCREEN

KIT-KODAK-7.2 - Kit for OG-7.2

Module

Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame

Module Quantity

4

Mounting Types

KD Solar On Roof

Roof Type

Corrugated

Mounting Distance (mm)

800

Rows

2

Panel Orientation

Portrait

Inverter

KODAK Solar Off-Grid Inverter MAX 7.2kW 48V

Battery

Kodak 3.68kWh 48V Battery Module (Pack of 2) (BL3 6-2)

Multiple Designs

1

System Information

Your chosen system consists of a KODAK Solar Off-Grid Inverter MAX 7.2kW 48V inverter with 4 Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6 modules and Kodak 3.68kWh 48V Battery Module (Pack of 2).

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If your customer requires their battery capacity to last for longer, consider selecting a higher capacity battery, or increasing the quantity of PV modules would increase the amount of energy available to charge the battery.

Kit Builder shows a selection of the best battery and module options based on the rating of the inverter and ease of installation. A wider range of options and accessories may be available in the full Design Tool using the 'Edit Design' link.

Detailed Engineering Design for the Project, which shall be prepared by the Concessionaire pursuant to the Concession Agreement and the Minimum Performance Standards and Specifications in other words "the actual detailed engineering designs, plans/drawings, and cost estimates, supported by design analysis and calculations, brochures, catalogues, and technical specifications" shall be the responsibility of the Client's (Engineer) even after the use of Kit Builder.


Major System Components

Module




Canadian Solar 555W Monocrystalline

Inverter



KODAK 7200W

Storage




KODAK

Using cell temperatures from 0°C to 70°C

System	Mounting	Total Price
4 x Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6	2,220W	
1 x KODAK Solar Off-Grid MAX 7.2kW 48V @ 48v	7.2kW	
	KD Solar On Roof (4.52m x 2.27m)	R72 929.05 (R32.85/Wp)

[View kit in Quick Quote](#)


[Edit Design](#)

[View Quote](#)

The default components of each kit have been **chosen based on popular combinations** for the chosen inverter, but you can adjust some of the major components easily by selecting from the dropdown lists. A wider range of module and battery selections may be available in the full design tool, which you can access from the bottom of the kit builder screen **using the 'edit design' link**.

THE KIT BUILDER SCREEN


HERE'S AN OVERVIEW OF A TYPICAL KIT ON THE KIT BUILDER SCREEN

KIT-KODAK-7.2 - Kit for OG-7.2

Module

Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame


No Modules



Canadian Solar
555W Super High Power Mono PERC HiKU with 30mm Frame
thickness and T6
Part: CS6W-555MS-F30-T6

Stock availability on request! Call us!


(429.10/Wp)



Canadian Solar
555W TopHiKU6 Super High Power N-type TopCon module with
T6 and F30 Frame
Part: CS6W-555T-F30-T6

56 In Stock
No More Stock Available


(429.10/Wp)



JA Solar
500W Mono PERC Half-Cell MBB Silver Frame MC4
Connectors
Part: JAM96S-30-500-MR-MC4

19 In Stock
No More Stock Available


(429.40/Wp)



Seraphim
SIV Monocrystalline Series 550Wp Silver Frame
Part: SRP-550-BMA-HV-SF

19 In Stock
31 Due: 17 Aug 2023

(429.00/Wp)




Canadian Solar
410W High Power Mono PERC HiKU6 Black Frame with MC4-
EVO2
Part: CS6R-410MS-EVO2-BF

Stock availability on request! Call us!

(433.60/Wp)

Battery

Kodak 3.68kWh 48V Battery Module (Pack of 2) (BL3.6-2)




Pack of 2:
KODAK
3.68kWh 48V Battery Module (Pack of 2)

Part: BL3.6-2

2 In Stock
No More Stock Available

(R19 879.855/Item)




Pack of 3:
KODAK
3.68kWh 48V Battery Module (Pack of 3)

Part: BL3.6-3

1 In Stock
No More Stock Available


(R19 879.860/Item)



KODAK
5.12kWh 48V Battery Module
Part: FL5.2

5 In Stock
13 by Land (East Rand) 17 Aug 2023

(R23 120.200/Item)




Pack of 2:
KODAK
5.12kWh 48V Battery Module (Pack of 2)

Part: FL5.2-2

2 In Stock
No More Stock Available

(R23 120.210/Item)




Pack of 3:
KODAK
5.12kWh 48V Battery Module (Pack of 3)

Part: FL5.2-3

1 In Stock
No More Stock Available

(R23 120.207/Item)



Freedom Won
Lite Home 10/8 LiFePO4 Battery N-1

(R62 777.890/Item)

The default components of each kit have been **chosen based on popular combinations** for the chosen inverter, but you can adjust some of the major components easily by selecting from the dropdown lists. A wider range of module and battery selections may be available in the full design tool, which you can access from the bottom of the kit builder screen **using the 'edit design' link**.

Using cell temperatures from 6°C to 70°C

System	Mounting	Total Price
4 x Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6	2,220W	
1 x KODAK Solar Off-Grid MAX 7.2kW 48V @ 48v	7.2kW	KD-Solar On Roof (4.52m x 2.27m)
		R72 929.05 (R32.65/Wp)

[View kit in Quick Quote](#)

[Edit Design](#) [View Quote](#)

SegenSolar (PTY) Ltd | Email: info@segensolar.co.za | Tel: 011 085 2600

THE KIT BUILDER SCREEN

HERE'S AN OVERVIEW OF A TYPICAL KIT ON THE KIT BUILDER SCREEN

After updating your module type, the Module Quantity dropdown will only show **quantities of your selected module that are safe and optimised for the inverter.**

For example, an inverter with a maximum input voltage of 145V should always have strings of 3 x 60 cell modules. That's why the quantities offered in the dropdown list are multiples of three.

The system summary section at the bottom will update each time you choose a different component, so you can easily see how the **total system price changes based on your adjustments.**

The blue 'info' button on the right provides a useful summary of the suggested string design and the full list of components with their prices. **Remember, you'll also receive an additional discount on all these line items once you proceed through to your quote.**

KIT-KODAK-7.2 - Kit for OG-7.2

Module Quantity

- 4
- 6
- 8
- 10
- 12
- 14
- 16

Module Inverter Storage

Canadian Solar 555W Monocrystalline KODAK 7200W KODAK

Using cell temperatures from 6°C to 70°C

System


4 x Canadian Solar 555W Super High Power Mono PERC HIKU with 30mm Frame thickness and T6

1 x KODAK Solar Off-Grid MAX 7.2kW 48V @ 48V

View kit in Quick Quote

Module Description	Canadian Solar 555W Super High Power Mono PERC HIKU with 30mm Frame thickness and T6
Inverters	1 x KODAK Solar Off-Grid Inverter MAX 7.2kW 48V
Strings of Panels (A / B / C / D)	1x4
Power Ratio	348.74%
Phases	1
Line Items:	5 X KD Solar stainless steel self-bonding mid-clamp with push-clip (R80,50) 9 X KD Solar stainless steel self-bonding adjustable end-clamp with 40mm Alancap (R209,25) 12 X KD Solar hanger bolt for a wood substructure (R803,88) 12 X KD Solar hangerbolt bracket with push-clip for long-rail (R331,80) 2 X KD Solar 4.7m long mounting rail (R865,10) 4 X Canadian Solar 555W Super High Power Mono PERC HIKU with 30mm Frame thickness and T6 (R9 526,60) 1 X KODAK Solar Off-Grid Inverter MAX 7.2kW 48V (R15 156,18) 1 X 4mm ² single-core PV DC cable 25m - Black (R371,29) 1 X 600V Protection Box 2 Inputs 2 Outputs 16A Isolator Type I, II SPD (R5 582,77) 1 X PV on Roof and Hazard Labels Pack (R159,68) 1 X Kodak 3.68kWh 48V Battery Module (Pack of 2) (R38 919,72) 1 X Automatic Voltage Switch, Single Phase, 30A (R912,28)

Edit Design View Quote



FINISHING UP

AFTER MAKING ANY NECESSARY ADJUSTMENTS TO THE MODULES OR BATTERIES IN KIT BUILDER, YOU CAN EITHER VIEW YOUR FINISHED QUOTE OR PASS THROUGH TO OUR **FULL DESIGN TOOL** TO MAKE OTHER ADJUSTMENTS.

Just click the button and a new screen will open. This means you can always refer back to Kit Builder later to make changes to your major components if needed.

Quote: SePV1613525 - 10 X Canadian Solar 555W Super High Power Mono PERC HiKU With 30mm Frame Thickness And T6

View Quote - Edit Quote - Print Quote - Edit Customer Quote - Print Customer Quote - System Summary - Contact Us

[Submit Order](#) [Show Delivery Methods](#) [View in SOP](#) [Remove Kit Discount](#)

SegenSolar
SegenSolar (Pty) Ltd | Northlands Production Park | Northridge | Gauteng | 2159 | South Africa

Quotation
Reference No: SePV1613525

Account Code	SEGES001	Description	10 X Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6
Organisation	Segen Pty Test Account	Delivery Organisation	Unit 108, Epsom Avenue, Northlands Production Park, Northridge
Address	Unit 108, Epsom Avenue, Northlands Production Park, Northridge, Randburg, Republic of South Africa 2159	Delivery Address	Unit 108, Epsom Avenue, Northlands Production Park, Northridge, Randburg, Republic of South Africa 2159
Type	PV Equipment Sales	Created Date	11/08/2023
Prospect Status	Proposal/Price Quote	Payment Terms	No credit available
Stock Location	West Rand		

Customer-generated quotations are valid for 7 days from the above date

Qty	Part No	Description	Unit	Discount	Net	Total Price	p/Wp	Expected
10	C55W-555MS-F30-T6	Canadian Solar 555W Super High Power Mono PERC HiKU with 30mm Frame thickness and T6	R3 402.36	32.00 %	R2 313.80	R23 138.00	416.9c	1,010 In Stock
2	KDS-RAIL-4400	KD Solar 4.4m long mounting rail	R585.48	32.00 %	R398.13	R796.26		1,927 In Stock
4	KDS-RAIL-4720	KD Solar 4.7m long mounting rail	R617.93	32.00 %	R420.19	R1 680.76		330 In Stock
32	KDS-HANG-BOLT-BRKT	KD Solar hangerbolt bracket with push-clip for long-rail	R39.50	32.00 %	R26.86	R859.52		1,534 In Stock
32	KDS-HANG-BOLT	KD Solar hangerbolt for a wood substructure	R66.70	32.00 %	R44.82	R1 442.24		3,027 In Stock
9	KDS-END-CLMP-ADJ	KD Solar stainless steel self-bonding adjustable end-clamp with 40mm Alcanap	R33.22	32.00 %	R22.59	R203.31		1,421 In Stock
17	KDS-MID-CLMP	KD Solar stainless steel self-bonding mid-clamp with push-clip	R25.86	32.00 %	R17.58	R298.86		3,283 In Stock
1	CABLE-4-25-B	4mm2 single-core PV DC cable 25m - Black	R530.41	32.00 %	R359.88	R359.88		62 In Stock
3	KG32-T204-GBA488	K&N Three Phase AC Switch Disconnector 32A	R1 165.38	32.00 %	R792.48	R2 377.38		14 In Stock
1	KG20-T104D	K&N Single String DC Switch Disconnector 25A 480V - 18A 500V	R1 057.80	32.00 %	R719.17	R719.17		20 In Stock
1	BOHAZARD-SET	PV on Roof and Hazard Labels Pack	R228.12	32.00 %	R155.12	R155.12		18 Due: 01 Sep 2023
1	SUN-12-0-3PH	Sunpink 12kW 48Vdc Three Phase Hybrid Inverter with VFI included	R60 538.39	32.00 %	R41 164.75	R41 164.75		155 In Stock
1	FE-AIO-H1-6-E	All In One Inverter 1PH, 6kW No Battery	R63 509.67	32.00 %	R43 186.58	R43 186.58		54 Due: 11 Nov 2023
1	BL3-6-3	Kodak 3.6kW 48V Battery Module (Pack of 3)	R63 399.41	32.00 %	R43 186.58	R43 186.58		5 In Stock
1	ACDB-3PHASE-RENO-32A	Three Phase Earth-Neutral Bridge Box For Inverters Up To 12kWac	R1 634.37	32.00 %	R1 063.57	R1 063.57		39 In Stock
1	NHQ2B-315A	APUSA Battery Disconnector with 315A Fuses	R4 851.08	32.00 %	R3 283.73	R3 283.73		2 Due: 19 Aug 2023
1	DELIVERY	Customer Collection - Johannesburg	R150.00		R150.00	R150.00		106 In Stock

Your delivery charge has been estimated based upon a single shipment from our Segen Office - West Rand warehouse. This will be automatically recalculated when you create a shipment to request we deliver your goods.

Total Price	R178 380.85
Total Price per Wp	3211.6c
VAT (15.00%)	R20 754.11
Gross Total	R205 114.76

jacolinrichards@segensolar.co.za +27 110852602 <https://portal.segensolar.co.za/>

THE FINALISED QUOTE NOW INCLUDES YOUR ADDITIONAL KIT BUILDER DISCOUNT AND CALCULATED DELIVERY COST TO YOUR ADDRESS.

We will frequently add new kits that feature new additions to our product portfolio and amend existing ones to reflect new product combinations that are recommended by our team.

We will regularly hold customer training sessions on how to use Kit Builder confidently, but you can always ask your Account Manager for a refresher demonstration.