

MyGrid DEFENDER : Grid-Tied Solar + Storage Design Package



Price: CAD \$100.00

SKU: MYGRID-DEFENDER-DESIGN

Product Categories: [Residential Solar](#), [Back-Up Systems](#), [Design](#), [Design Packages](#), [Home](#), [On The Roof](#), [Pop Picks For Homes](#)

Product Tags: [back-up](#), [backup](#), [battery](#), [blackout](#), [brownout](#), [canada](#), [demand charges](#), [energy storage](#), [enphase](#), [grid tie](#), [Hanwha](#), [home solar](#), [hybrid](#), [ironridge](#), [offset](#), [optimized](#), [package](#), [peak](#), [peak rates](#), [sma](#), [sol-ark](#), [solar energy](#), [solar system](#), [solis](#), [storage](#), [sunny boy](#), [tou](#), [utility](#)

Product Page: <https://www.modernoutpost.com/product/mygrid-defender-grid-tied-solar-storage-design-package/>

Product Summary

Blackouts, brownouts, demand charges, oh my! There is a growing list of reasons for building some amount of energy storage into your solar system design, and the MyGrid DEFENDER package is the way to get it done. You want back-up during emergencies so essential loads like fridges & freezers keep running. You also want to defend yourself against utility peak rate charges & time-of-use (TOU) rates, that quite often do not coincide with the peak energy production of your solar array. By adding even a basic amount of battery storage to your system can go a long way to solving these issues.

Product Description

Blackouts, brownouts, demand charges, oh my! There is a growing list of reasons for building some amount of energy storage into your solar system design, and the MyGrid DEFENDER package is the way to get it done. You want back-up during emergencies so essential loads like fridges & freezers keep running. You also want to defend yourself against

utility peak rate charges & time-of-use (TOU) rates, that quite often do not coincide with the peak energy production of your solar array. By adding even a basic amount of battery storage to your system can go a long way to solving these issues.

By choosing this system design package, you are letting us know that you would like to consider adding energy storage to your grid-connected solar array. We will consult with you around issues such as your home's daily consumption (from your utility bills), your goals for independence & peace of mind, and of course your budget.

Emergency Back-Up

We make sure that your system can power essential loads like fridges, freezers, security, and lights for the number of hours or days you feel is necessary. Whole-home back-up is also an option if desired.

Controlling Utility Rates

Need to do laundry after you get home from work, but the utility is charging double rates after 5pm? Program your system to take the energy needed for washing machines, dishwashers, countertop appliances, and entertainment systems from your solar storage instead of buying it from the utility during specific times of the day.

Further proof that solar can be look good, these systems are low-profile, and sleek. We typically use all-black modules and racking, with hidden/protected wire entries. The equipment downstairs in the garage or utility room is often placed in cabinets for both security and tidiness.

The Fee

A lot of thought & effort goes into our designs. We make sure that the equipment we specify is appropriate for your specific location, your budget, and your energy goals. The design fee we charge gets applied as a credit against any eventual equipment purchase (no time horizon).

The Design Process

Step 1 : Confirm the Location Details

We use satellite imagery to model your roof or property, so will discuss your options with you before we get started.

Step 2 : Solar Performance Simulation Report

This report illustrates your installation layout and the energy you can expect to generate on a monthly average and annual basis. Compare the production numbers against your utility bills to know how much your system will offset.

Step 3 : Engineering Documents

We include all equipment spec sheets, engineering reports, & installation manuals, so you know exactly what we are proposing.

Step 4 : Equipment specification & quotation

Our quotations include a line-by-line accounting of all the equipment in your system. We want you to have the full details.

The Solar Modules : All-Black, Split-Cell

We select the most current all-black solar modules in the upper echelon of 60-cell, 66-cell, and 72-cell formats for the MyGrid DEFENDER designs. Modules selected are also split-cell. This means they are assembled in two sections which keeps shading issues from affecting the entire module. It also means optimized internal electrical connections for higher performance. Black monocrystalline cells, with black frames & backsheets blend into roof spaces extremely well.

The end result is the highest yield from your solar array than any other architecture, while providing the best aesthetics.

The Inverter(s) : Hybrid or Micro

We will consult with you regarding the best choice of inverter platform to meet your goals.

Microinverters are on the roof behind your solar modules which avoids taking-up wall space in your garage or utility room. They are completely silent, provide the best shade mitigation, electrician-friendly AC wiring, and overall system redundancy. The leading brands offer battery storage options if desired.

Hybrid inverters provide perform as string inverters, but also provide additional integration features such as battery & generator inputs. Manage your energy to best defend against utility rate schemes. Grid buy/sell, or buy-only when needed, the programming options are many.

The Racking : Ironridge

Why not optimize your home's curb appeal while you optimize your solar output? The Ironridge XR series rail system provides the strength and appearance most homeowners prefer. We've selected black rails for the MyGrid PEAK series in order to minimize visibility under the array, plus a hidden end clamp that allows the rails to be cut flush to the ends of the solar modules. No more ugly clamp brackets on the ends of your rails! Ironridge rails have a rounded triangular

shape that provides superior strength to withstand snow loads beyond other rails' abilities. End caps complete a clean look for your roof.

We look forward to working with you!

Product Attributes

- Weight: 100 kg