

## Sol-Ark 5K All-In-One Solar Generator Hybrid Inverter



Price: CAD \$7,849.00

**SKU:** SOL-ARK-5K

**Product Categories:** [Grid/Battery : Hybrid Pre-Wired](#), [Grid/Battery : Hybrid 4-10kW](#), [Inverters](#), [Off-Grid : Inverter/Charger Pre-Wired](#), [Shop](#)

**Product Tags:** [5000 watt](#), [5000w](#), [5K](#), [5kW](#), [canada](#), [grid tie](#), [hybrid inverter](#), [inverter](#), [net meter](#), [off-grid](#), [sol ark canada](#), [sol-ark](#), [sol-ark 5k canada](#), [solar-ark 5k](#)

**Product Page:**

<https://www.modernoutpost.com/product/sol-ark-5k-all-in-one-solar-generator-hybrid-inverter/>

### Product Summary

This is the Sol-Ark 5K All-In-One Solar Generator Hybrid Inverter. Hugely popular with grid-tied solar+storage projects for several reasons: Easy to install & use, flexibility to design your system self-consumption needs, and incredibly reliable.

This is an impressive system, providing grid-tie, off-grid, and hybrid functionality in a single unit. It is the world's most efficient battery-based inverter system, that is just as happy to operate without batteries. With the Sol-Ark 5K, you have the flexibility to build your system the way you want, and adapt it according to future needs. All in one unit.

## Product Description

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If you've had the pleasure of visiting the Sol-Ark website or viewing some of their videos, you will quickly realize how challenging a task it is to describe this multi-function energy hub.

On one hand it is a grid-tied inverter, connecting your solar directly to the grid. It can also function as an off-grid inverter, sending energy into your battery bank and interfacing with generators.



Then again, it's also a high-efficiency hybrid inverter, able to use a battery bank to maximize your system's internal consumption, and interface with the utility in either a buy/sell, or buy-only configuration.

Here is an overview video...

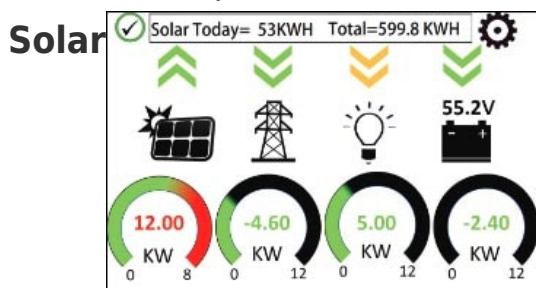
YouTube Video: [YouTube.com/watch?v=9SZ0bwgNgcA](https://www.youtube.com/watch?v=9SZ0bwgNgcA)  
;feature=emb\_logo

And a webinar covering greater detail...

YouTube Video: [YouTube.com/watch?v=GX2VqIjmk0Y](https://www.youtube.com/watch?v=GX2VqIjmk0Y)

Consider the rich set of components pre-installed in the Sol-Ark system. The additional labour and additional parts required for any other hybrid inverter system to be able to come close to the Sol-Ark's core functionality, makes this system an exceptional value.

Sol-Ark 5K Specifications



Max allowed PV Power : 6500W (2x 3250)

Max allowed PV Power per MPPT : 3250W

Max DC voltage : 500V

MPPT voltage range : 150-425V

Starting voltage : 175V

Number of MPPT : 2

Solar Strings per MPPT : 2

Max DC current per MPPT : 10A (self limiting)

Max AC Coupled Input (Micro/String Inverters) : 9.600W

Max Combined Solar Input (DC+AC) : 13,000W

### **AC Output**

Connections : 120/240V split phase

Continuous AC power to Grid (Grid-Tie) : 5000W (240V) / 3500W (120V)

Continuous AC power to Loads (Off-Grid) : 5000W (240V) / 3500W (120V)

Surge AC power 10sec : 16,000VA (240V) / 25,000VA (120V)

Frequency : 60/50Hz

Continuous AC power w/ Grid or Gen : 15,120W / 63A (240V) / 7,560W 63A (120V)

CEC Efficiency : 96.5% (Peak 97.5%)

Idle Consumption typical - no load : 60W

Sell back power modes : Limited to Household or Full Grid-Tied

Design (DC to AC) : Transformerless DC

Response Time (Grid-Tied to Off-Grid) : 4ms

Power Factor : +/-0.9 - 1.0

### **Battery (optional)**

Type : Lead-Acid or Li-Ion

Nominal DC Input : 48V

Capacity : 50 - 9900Ah

Voltage Range : 43.0 - 63.0V

Continuous Battery charging output : 120A

Charging curve : 3-stage w/ equalization

Grid to Battery Charging Efficiency : 96.0%

External temperature sensor : included

Current shunt for accurate % SOC : Integrated

External Generator Start based on voltage or % SOC : Integrated

Communication to Lithium battery : CanBus & RS485

### **General**

Dimensions (H x W x D) 30" x 18.3" x 10"

Weight : 75 lbs

Enclosure : NEMA type 1 (Indoor Use)

Ambient Temperature (4 variable speed fans) -25 to 55C, >45C derating

Display : Color touch screen

Wi-Fi Communication (monitoring or SW updates) : Integrated

Snap on sensors for limited selling to Household : Included

Standard Warranty : 5 years

Optional Extended Warranty : 10 years

### **Protection & Certifications**

Electronics certified safety by SGS labs to NEC & UL specs – NEC 690.4B & NEC 705.4/6 : Yes

Grid Sell Back – UL1741-2010/2018, IEEE1547a-2003/2014, FCC 15 class B, (April 2019: UL1741SA, CA Rule 21, HECO Rule 14H) : Yes

PV DC disconnect switch – NEC 240.15 : Integrated

Ground Fault Detection – NEC 690.5 : Integrated

PV rapid shutdown control – NEC 690.12 : Integrated

PV Arc Fault detection – NEC 690.11/UL1699B : Integrated

PV input lightning protection : Integrated

AC input/output 50A breakers : Integrated

Battery overcurrent fuse : Integrated

User wiring enclosure w/ ¾” & 1” knock-outs : Integrated

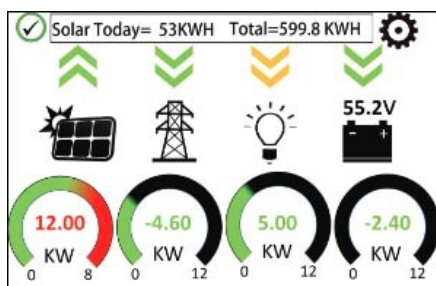
Solar Flare/EMP Hardened to 2015 MIL-STD-461G (Independently tested June 2018)  
: Optional

**Downloads** [Click here for the Sol-Ark 5K Brochure](#) [Click here for the Sol-Ark 5K Spec Sheet](#)] [Click here for the Sol-Ark 5K User Manual](#)

## Product Attributes

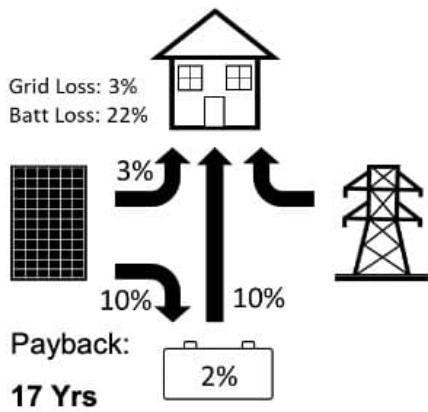
- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: 10 kg

## Product Gallery

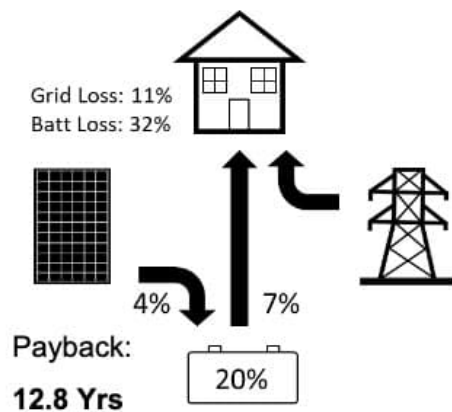




### Hybrid Solar



### Traditional Solar



### Sol-Ark Hybrid Solar

