



News Release

Dual-Output CyboInverter Selected as a 2022 Top Inverter

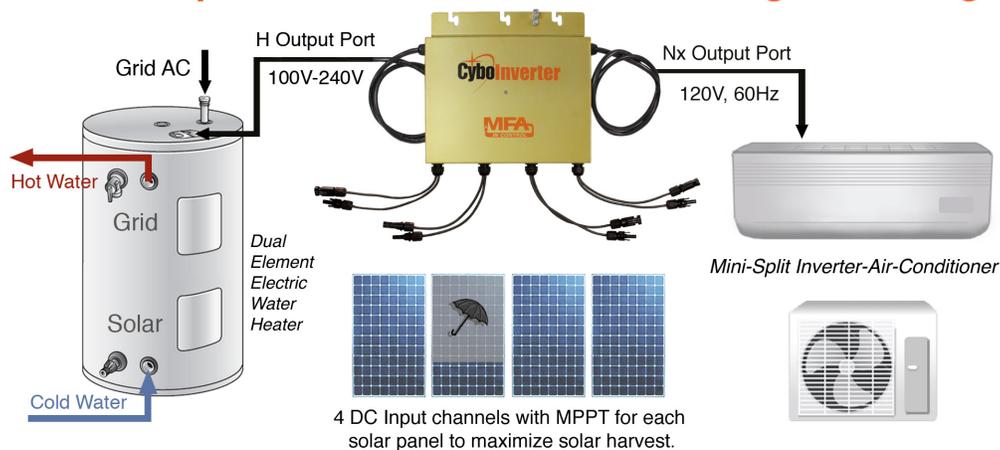
by Solar Power World Magazine

March 6, 2023 – CyboEnergy, Inc. (Rancho Cordova, California) announced today that its Dual-Output Off-Grid CyboInverter was selected as a 2022 Top Solar Inverter by Solar Power World Magazine.

As stated on the Solar Power World Magazine website for 2022 Top Inverters Products, “This inverter can power electric water heaters in mode-1 or AC loads in mode-2. PV water heating systems are simple and cost-effective. The inverter can also run lights, fans, TVs and mini-splits. It is ideal for cottage homes. CyboInverters have 4-input channels with panel-level MPPT and can support 450-W panels.” (See the 2022 Top Solar Inverter Products [here](#)).

CyboEnergy CEO Dr. George Cheng said, “We are very thankful to Solar Power World for this honor 3 years in a row as our AC Assisted Off-Grid CyboInverter was selected as a 2020 Top Solar Inverter, and our CyboInverter H model for PV water heating was selected as a 2021 Top Solar Inverter. This recognition validates our vision and emboldens us to continue our innovation to help build a better and cleaner world.”

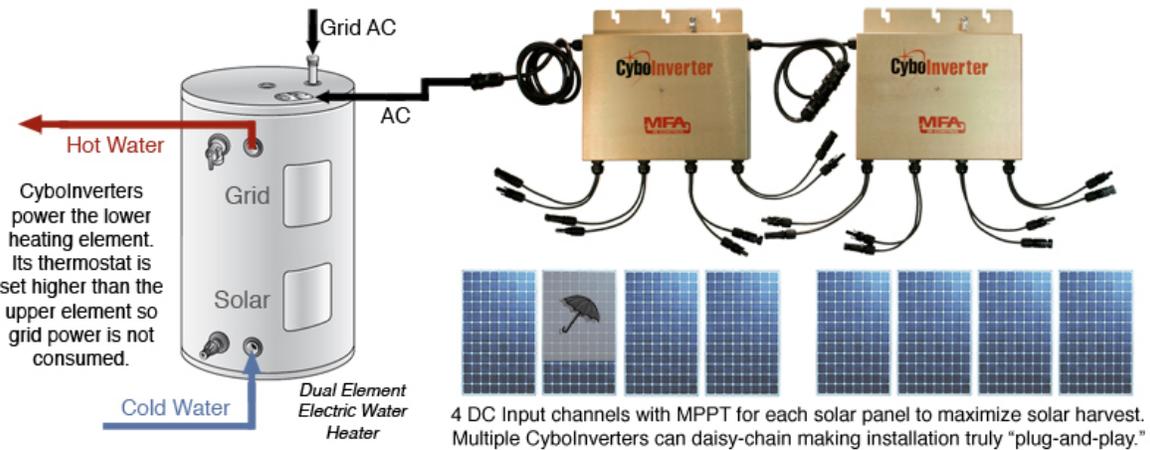
Dual-Output Off-Grid Inverter for Heating & Cooling



As shown in the above diagram, a Dual-Output Off-Grid CyboInverter can do heating or cooling with the same system. Four solar panels connect to four input channels of the inverter. In off-grid mode 1 (left side), the system can harvest solar energy from the solar panels for PV water heating. In off-grid mode 2 (right side), the system can support a 120V, 60Hz off-grid circuit to run lights, fans, computers, phone chargers, mini-splits, and appliances. An IoT enabled AC power switch can be installed on each side of the system to let the user select the running mode remotely.



CyboEnergy is also well known for its solar PV water heating solution. As shown in the following diagram, an off-grid PV water heating system is quite simple. It includes multiple solar panels and one or more off-grid CyboInverter H models. The diagram shows a master inverter daisy-chained with a slave inverter to deliver 2.5KW AC power for water heating. The inverters output can deliver solar energy to the lower heating element of the water heater. The temperature setpoint for the lower element can be purposely set much higher than the upper element. This way, the upper element that consumes grid power does not need to turn on unless a lot of hot water is used within a short period of time. Compared with thermal solar, PV water heating has many advantages: It is simple, clean, safe, cost-effective, and has no maintenance requirements. Packaged PV water heating systems are available on the market. What better way to store solar energy than in the form of hot water without using any batteries?



CyboInverters have been installed at a large scale for their unique features and benefits, plug-and-play installation, and cost-effective off-grid solar solutions with or without batteries. CyboEnergy also offers licensing opportunities based on its patent portfolio.

About CyboEnergy

CyboEnergy Inc., located in California, USA, is an affiliate of CyboSoft, General Cybernation Group Inc., focusing on the development, marketing, and servicing of the product lines in the clean energy field. CyboEnergy received the Frost & Sullivan's 2013 Global Product Differentiation Excellence Award for Solar Inverters and Frost & Sullivan's 2017 Global Solar Inverter Technology Innovation Award. For more information, please contact: CyboEnergy, Tel: (916) 631-6313, e-mail: Josh Bear, JBear@cybosoft.com, Web site: www.cyboenergy.com.

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