



News Release

CyboEnergy Releases Groundbreaking On/Off-Grid CyboInverter

June 10, 2015 – CyboEnergy, Inc. (Rancho Cordova, CA), the developer of the world's first solar power Mini-Inverter that possesses the key merits of both central inverters and microinverters, announced today that the company has released a groundbreaking On/Off Grid CyboInverter that can operate in either on-grid or off-grid mode, switching between the two modes automatically depending on the grid condition. CyboEnergy will demonstrate the new product at Intersolar (Booth 8721) on July 14-16, 2015 in San Francisco, California.

CyboEnergy CEO, Dr. George Cheng said, “Climate change is becoming more catastrophic and power grid shutdowns are more frequent and severe. On-grid inverters are designed to deliver power to the grid but cannot run as off-grid inverters to power AC loads, yet off-grid inverters cannot send power to the grid when the grid is on so the solar energy is wasted. Now, we have combined both functions in one inverter to offer grid flexibility.”

The following graphic shows a 4-channel 1.2KW On/Off-Grid CyboInverter that has an on-grid AC output port and an off-grid AC output port. Each inverter has four input channels that can connect to four 300W DC sources including solar panels, wind generators, hydro-generators, or batteries and produce 1150W AC peak power. Each input channel has its own control and MPPT to eliminate solar partial shading problems and maximize power production. The product is patented, made in the USA and UL1741 certified.





During normal operating conditions when the grid is on, the On/Off-Grid CyboInverter works like a regular on-grid inverter that meets all UL1741 requirements including: over or under voltage shutdown; over or under frequency shutdown; and anti-islanding. When the grid is down, the inverter will shutdown immediately based on the UL safety rules. After a few seconds, the inverter will automatically switch to off-grid mode to support an off-grid AC circuit and power AC loads such as lights, fans, TV, computers, phone-chargers, and small refrigerators. When the grid returns, the inverter will switch to on-grid mode and send power to the grid.

Using the On/Off-Grid CyboInverter, the same solar power system can generate power to the grid and can also be a power backup system when the grid is down. For ease of installation, it can daisy-chain with multiple On-Grid CyboInverters. In addition, the unique multiple input channel design of the CyboInverter product family offers seamless integration of renewable energy sources, including solar, wind, fuel-cell, hydro, and batteries where energy storage is desirable. The On/Off-Grid CyboInverter can significantly improve the usefulness of solar power systems and make them more competitive compared with fossil fuel and other types of renewable energy, resulting in better return-on-investment (ROI) and faster adoption of solar energy in the global market.

About CyboEnergy and CyboSoft

CyboEnergy is a subsidiary of CyboSoft, focusing on development, manufacturing, marketing, and services of product lines in the renewable energy field. CyboEnergy received the Frost & Sullivan's 2013 Global Product Differentiation Excellence Award for Solar Inverters. Founded in 1994, CyboSoft is the leader in control technology serving the worldwide process control, building control, and equipment control markets. CyboSoft's patented Model-Free Adaptive (MFA) control technology for automatically controlling physical processes is a major breakthrough. No other comparable technology possesses all the attributes of MFA.

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