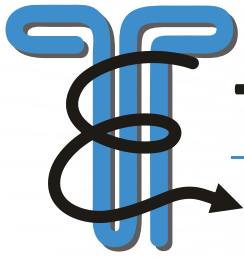


# Energy



**Tamuz Electronics**

Energy Smart Technologies





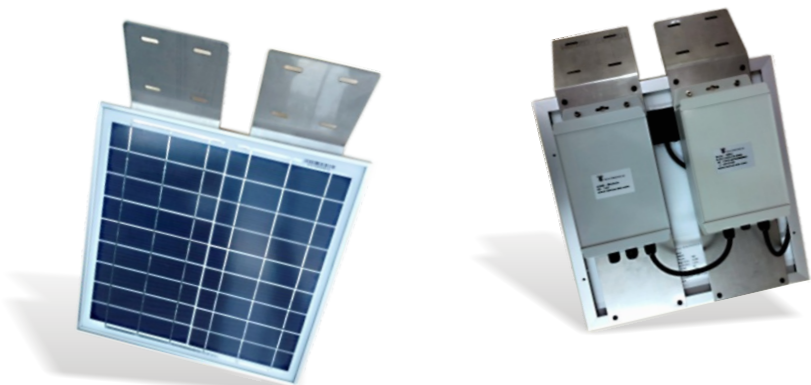
# Leading in development of long-lasting and maintenance-free compact, smart and renewable energy systems.

## Our solutions:

Tamuz develops renewable energy harvesting technologies, applied to water flow, wind and solar radiation. Our technology allows to provide the required power to maintain remote off-grid systems, including irrigation, measuring, sewage flow measurements, wireless weather stations, water purification sensors, filtering systems, and more.

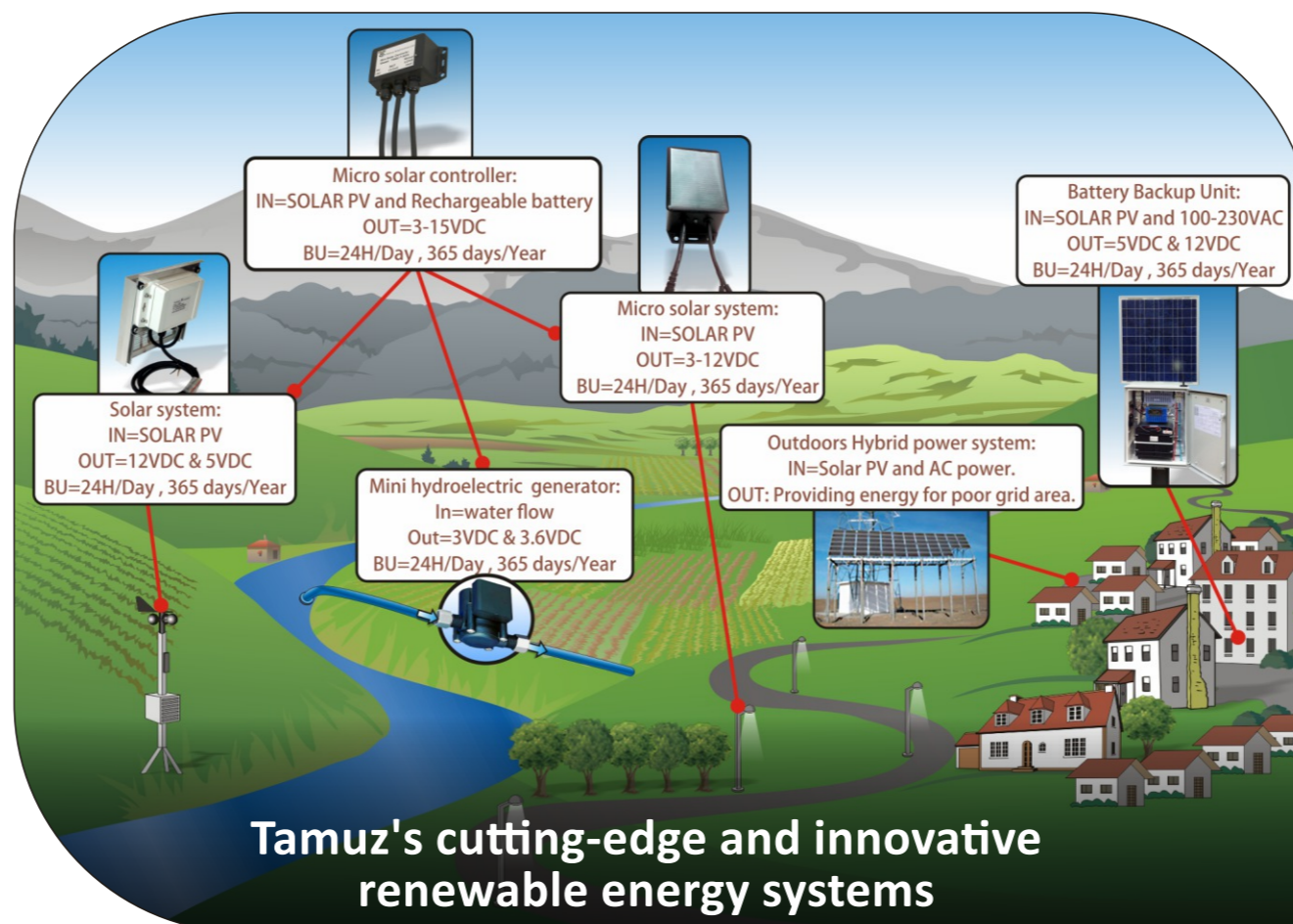
Our green, tailor-made energy solutions are designed to provide sustainable and non-stop energy supply for many years, while guaranteeing the user's safety and standard of living.

We have developed a compact All-In-One energy source which includes a highly robust Li-FePO4 battery in combination with a unique micro solar controller. The device is made to be installed in the field at remote locations, allowing for minimum maintenance and maximum reliability.



## Markets and applications:

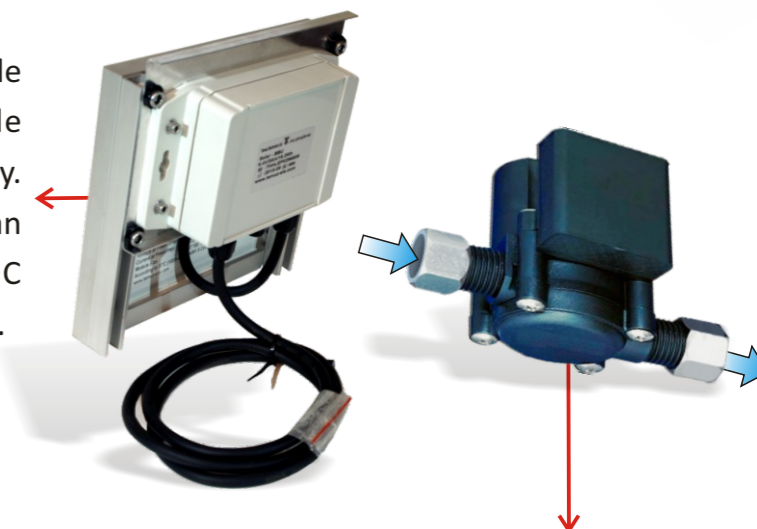
- **Weather stations** - Solar energy sources made to power measurement sensors and weather data transmitters.
- **Smart water** - Main power sources for irrigation systems, pipe control made to reduce water leakage and data transmitters for water distribution network.
- **Sewage water** - Solar energy sources made to power on-site wastewater monitoring systems and sewage pumping stations.
- **Soil moisture** - Mini solar modules made to power any soil moisture sensors, data transmitters and irrigation control devices used in agriculture, farm plantations and climate research.
- **Water metering** - Batteries and micro power modules which provide long lasting power for transmitters and data collection devices, which collect data about water supply and its distribution.



## Project examples:

### • Battery Backup Unit (BBU):

The company has developed a unique BBU made for outdoor devices, and provides a reliable 24/7/365 DC output power with days of autonomy. The BBU contains a high energy density battery, an efficient charger, embedded software and a DC/DC converter, designed for 1800 cycles and 5 years life.



### • Mini hydroelectric generator with UPS:

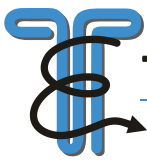
A miniature power generator which stores energy produced by pipe water flow in a battery and converts it to DC power required to operate field sensors. This unique system eliminates the need for solar panel installation or maintenance.

## Additional markets and applications:

Tamuz provides unique power and energy sources solutions to Defense, Security, Medical, Agriculture & Water technology customers, as well as to Smart Metering, Utility, Wearable, IoT and Smart City applications.

- For the Medical sector we develop unique and custom design solutions of safe and reliable rechargeable and primary batteries, smart batteries, medical grade power supplies, smart and multichannel chargers and hospital grade power cords. All according to the medical OEM customers' needs and the applicable medical standards.

- For the sector of Defense we develop and design advanced power packs, charging technologies and LED light solutions. Today's armed and security forces demand reliable and independent power sources such as high energy density batteries, solar chargers and hybrid energy generators to power their electronic equipment.



## COMPANY PROFILE

Tamuz Electronics Ltd. specializes in the development, production and marketing of innovated and advanced energy systems, batteries and power modules for a wide range of customers, business sectors and applications. The company established in 1998 by Mr. David Danino - a world expert in battery technologies, energy conversion, charging methods and battery based systems. Tamuz's cutting-edge and innovative renewable energy systems and battery backup units enable any system designer to achieve his goal to have a perfect and efficient solution for his application.

The company's HQ, R&D, assembly and sales are base in Kfar-Saba, Israel with a production at Beit-Jann in the upper Galilee, Israel as well as production and logistic center in Asia.

The company team including engineers, technicians and battery-manufacturing experts. The experience and expertise of our team in Tamuz allows us to provide the optimal solution to meet our customers' power demands throughout the project phases, starting with the development phase through the prototype phase and finally to the manufacturing phase, all under a tight schedule and professional technical support.

Tamuz Electronics Ltd. provides turn-key power projects, complete energy solutions for autonomic power systems, as well as consulting, testing, designing, assembly and marketing of a wide range of batteries, power supplies, chargers, renewable energy systems and power modules.

Tamuz offers a wide range of battery technologies such as rechargeable batteries, primary batteries and new and special battery chemistries. Our battery packs are designed with protection components, BMS, indicators, converters, semi-smart and SMBus communication modules. Tamuz's know-how helps in bridging the gap between the customer demands and the up-to-date products and technologies available in the power field.

Tamuz is active in providing the right power solutions to Defense, Security, Medical, Agriculture & Water technology customers, as well as to Smart Metering, Utility, Wearable, IoT and Smart City applications.

## COMPANY BACKGROUND

Since its establishment, Tamuz Electronics Ltd. has acquired vast knowledge relating to mobile and portable energy systems, reliable power supply products and complete energy solutions for outdoor and indoor electronic systems. The company is dedicated to finding the right and most efficient solution to its customers.

Tamuz's clients benefit from our professional technical design, support and efficient solutions.

This approach allows our customers to have an advanced system which prepares them for future advancements.

The company supports worldwide OEM, governments, utilities, R&D centers, universities and startup customers and sectors.