

BRINGING POWER WHERE IT'S NEEDED MOST




SOLAR POWER FOR  
**AGRICULTURE &  
WATER APPLICATIONS**



[www.tamuzsolar.com](http://www.tamuzsolar.com)





**OFF-GRID ADVANCED READY-TO-USE  
SOLAR SYSTEMS FOR **FARMING,  
IRRIGATION, WATER MONITORING  
AND METERING.****

Tamuz Solar Technologies offers a unique all-in-one, reliable, efficient, and cost-effective solar power systems. These off-grid systems have a long battery life and are perfect for smart farming, irrigation, weather stations and more.





**COST-EFFECTIVE**  
**LONG-LASTING**  
**WITHSTANDS EXTREME WEATHER CONDITIONS**  
**MAINTENANCE FREE**  
**SAVES COSTS**

## APPLICATIONS



### **AGRICULTURE & FARMING**

Monitor & control farming processes with solar power enabled smart agricultural gadgets.



### **IRRIGATION**

Monitor, control & adjust irrigation systems with solar power enabled smart irrigation tools.



### **SOIL MOISTURE**

Monitor & control soil quality and moisture levels, measure and transmit data to increased production and high crops yield.



### **WATER FLOW**

For municipal and rural water distribution in rural and remote areas - monitoring and data transmission.



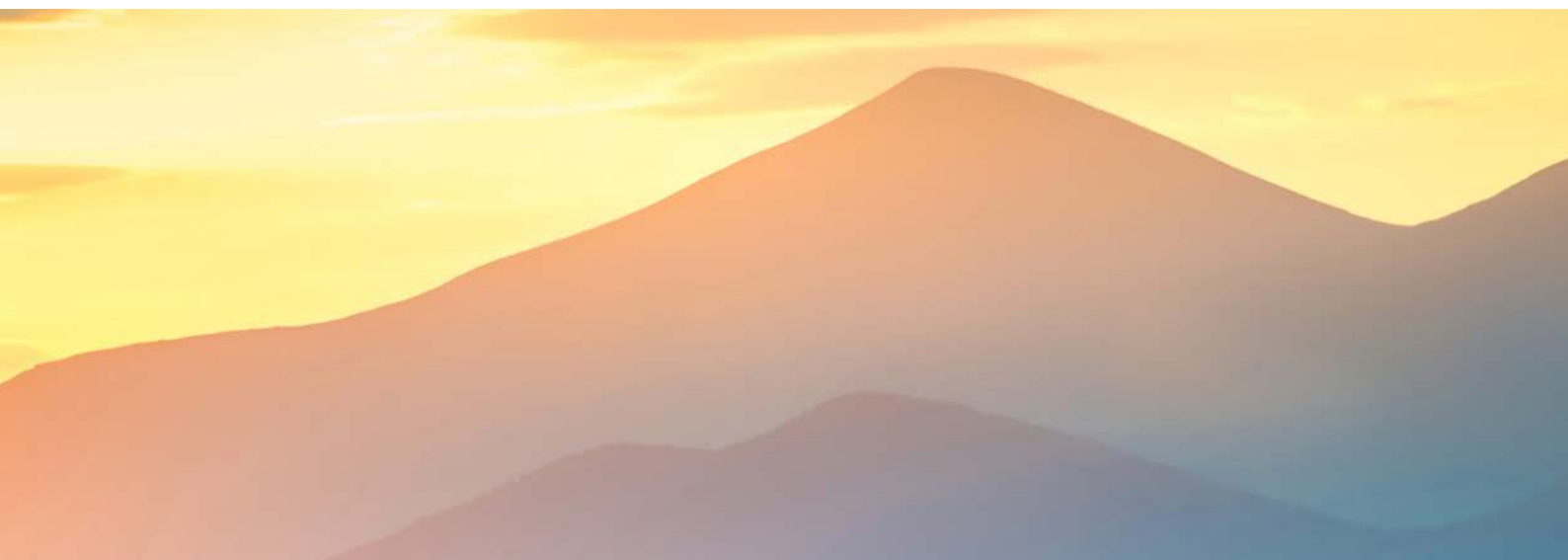
### **REMOTE AREAS**

Supporting critical infrastructure in rural and remote areas. A perfect solution for meteorological stations.



### **SEWAGE WATER**

For carrying out, testing and measuring sewage flow to treatment plants.



## WHY CHOOSE TAMUZ SOLAR

### Compact Design

Small size, all-in-one system for easy handling, shipping, and field installation.

### Lightweight

High energy density batteries and high-efficiency solar-electric conversion power module.

### Long Shelf Life

Very low leakage current.

### Maintenance Free

All modules are designed for working continuously in the field.

### Low Cost

Custom fixed output DC voltage, no external DC/DC is required.

### Reliability

Operates in extreme weather conditions.

## MAIN FEATURES

- Solar Photovoltaic Modules (up to 100Wp)
- Long-life cycle Lithium Iron Phosphate batteries (>2,500 cycles)
- Embedded High Efficiency Micro Solar Charge Controller (>95% efficiency)
- Regulated DC Output Voltage (3-24VDC)



	TAMUZ SOLAR PRODUCTS	COMPETITORS
<b>Product Design</b>		
Size	All-in-one, compact, unique engineering	Large, complex, with a number of separate components
Battery Technology	Advanced, very high life-cycle (>2500 cycles)	200-300 cycles
Efficiency	High efficiency, >95%	40-50%
<b>Installation &amp; Maintenance</b>		
Installation	Easy to install, don't require professional skills	Needs to be installed by a trained personnel
Maintenance	Maintenance Free	Require maintenance
Expected Lifetime	>6 years	1-2 years
Extra Modules	Does not require extra modules to operate	Require extra modules
Safe Operations	Includes full battery & short-circuit protection	Require additional safety measures
Connectivity	Fit customers' power needs for end-product connectivity, stable output V	No stable output
<b>Costs</b>		
Installation costs	Low	High
Total Cost of Ownership	Low (no battery replacement required for 6 years of operations)	High (require battery replacement & maintenance)

## TAMUZ SOLAR HOLISTIC APPROACH

All-in-One Custom System with built-in Modules:



- Solar Panel
- Li-Battery
- Solar Charger
- DC/DC

One or two devices may be connected





Innovative all-in-one Solar Energy Systems: compact & efficient. Solving critical power needs, operating in harsh weather conditions.

## System Overview

The SolBBU-100™ products series is designed and manufactured according to Tamuz Solar's holistic approach. It is the most advanced solar energy source for a wide range of applications, capable of operating in harsh weather conditions.

**All-in-one system** that includes: Solar panel, Lithium-iron-phosphate battery, solar charger, micro-charge controller & regulated output DC/DC with an option to integrate customer's devices.

## Features

**Solar Photovoltaic modules** (0.5-100Wp)

**Long life-cycle:** >2,500 cycles (=6 years)  
Embedded high efficiency **Micro Solar**

**Charge Controller** (>95% efficiency)  
Regulated DC output voltage (3 – 24VDC)

Highly efficient **DC/DC conversion**  
Up to 50W output power (depending on model)

**Weatherproof** outdoor design

**Compact:** all-in-one system for easy handling, shipping, installation, and use

**Maintenance free:** designed for uninterrupted work of app. 6 years, no battery replacement

**Lightweight:** includes high energy density batteries (115Wh/Kg) & high-efficiency solar-electric conversion power module (>95%)

**Long shelf life** due to a very low leakage current

**Regulated output voltage:** no external DC/DC

**Safe:** PCM & fuses for safety; over-charge, over-discharge & short circuit protection

**Cost-effective**



**EFFICIENT**  
**COST-EFFECTIVE**  
**MAINTENANCE**  
**FREE**



**AVAILABLE IN A WIDE VARIETY OF  
CONFIGURATIONS FOR DIFFERENT ENVIRONMENTAL  
CONDITIONS AND APPLICATION REQUIREMENTS**





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## ABOUT TAMUZ SOLAR

**Tamuz Solar Technologies** specializes in development, manufacturing and marketing of advanced all-in-one off-grid Solar Energy Systems for Security, Agriculture & Water technologies, Utility, IoT and Smart City applications.

Tamuz Solar's engineers and solar technology experts work hard to provide you with an ultimate solution for field power applications.

The company's HQ, R&D, assembly & marketing are located in Israel with close-to-market production lines.

The company was founded by **Mr. David Danino** - a world expert in battery technologies, charging methods and off-grid-solar systems design & development.

Tamuz is an ISO 9001:2015 certified company.



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