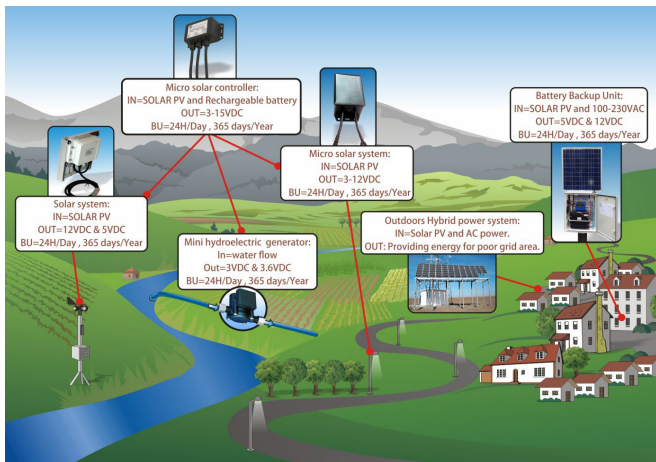


Series: SolBBU-100™

Innovative all-in-one Solar Energy System: 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.



Features

- Solar Photovoltaic modules (0.5-100Wp)
- Long life-cycle: >2,500 cycles (=6 years)
- High efficiency Solar Charge micro-controller (>95% efficiency)
- Regulated DC output voltage (3 – 24VDC)
- Highly efficient DC/DC conversion
- Up to 50W output power (depending on model)
- Compact, lightweight, transportable
- Over-charge & over discharge battery protection
- Weatherproof outdoor design
- Cost-effective

Main Benefits for Applications

- Maintenance free: designed for uninterrupted work of app. 6 years, no battery replacement
- Compact: all-in-one system for easy handling, shipping, installation, and use
- Lightweight: includes high energy density batteries (115Wh/Kg) & high-efficiency PV-Battery energy conversion module (>95%)
- Long shelf life due to a very low leakage current
- Regulated output voltage; no external DC/DC
- Safe: PCM & fuses for safety; overcharge, over-discharge & short circuit protections

All-in-one solution includes Solar panel, Special Lithium battery, high efficiency solar charge micro-controller with embedded DC/DC regulator and advanced control & management software with an option to integrate customer's devices.

Supported Applications

Agriculture & Water Sectors

Digital farming, Irrigation systems, soil moisture sensors, pipe control, weather stations, smart water metering, communications, sewage water controllers.

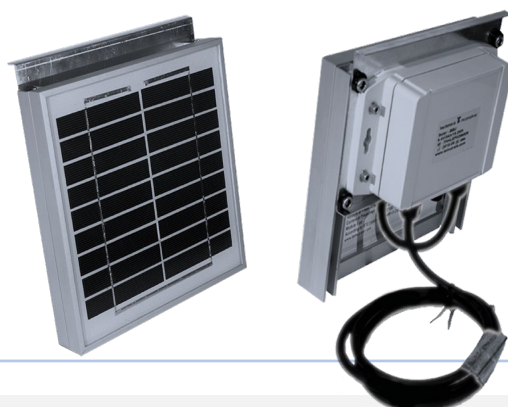
Agriculture & Water Sectors

Smart controller infrastructure, Smart city/Safe city devices, Wi-Fi coverage applications. IoT devices that support critical electricity and communications needs.

Defense, HLS, Security, Rescue & Police forces

Perimeter cameras, field chargers for tactical batteries, wireless security & transmission systems, robots and unmanned surface vehicles (USV), warning systems, LED lighting, remote relay stations, telecommunications, electric fences.

MODEL: 1B1



Series: SolBBU-100™ | Model 1B1 (January 1, 2022)

Tamuz Solar Technologies | tel: +972-9-7633000 | www.tamuzsolar.com | info@tamuzsolar.com

SolBBU-100 – 1B1 – Technical Specifications

Parameter	Value
Input	
PV	9Vmp / 3Wmax
Protection	On-board protection for ESD
Output	
Voltage range	Output voltage: 12VDC +/-5%
Current	<0.7A
No. of outputs	1 output cable
Battery	
Rated capacity	30.72Wh
Protection	Over & Under V., Short circuit
Battery disconnects	By output plug disconnect (for shipping and storage)
Self-discharge power	Maximum 4%/month (of rated capacity @ 25°C)
System Environmental	
Temperature range	Operations: -20°C to 70°C, Storage: -20°C to 45°C
Self-discharge power	5%/month (maximum when output cable is connected)
IP Code	IP65 Rated
Standards & Compatibilities	
ISO-9001	Quality management system
Certifications	UN38.3-(PI967) for transportation
Protection	Reverse polarity & SC protection (PV/Battery/Output), External Fuse-2A-SB
Other Features	
System output	Out1 (12V): 1 output cable
Output cord	Fix cord: *1st side connected internally . *Cord: H05RNF-2x1.0m2 (L=5Mt). *2nd side: 2WR open ends.
Bracket	Size: 50x178mm, with 2 holes size D=10mm
Dimensions & Weight	LxWxT= 205 x 160 x 33 (+/-5%), Weight=0.85g+/-10%
Optional	Cord (different lengths), Battery with a higher rated capacity, Different output voltages, Communication port, Special bracket.
P/N	TSCAB1120001

Series: SolBBU-100™ | Model 1B1 (January 1, 2022)

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