



SOLAR STIK®

Category: Power Management

# 24VDC Grid-Tie Module 2000

IEC 60309 H AC Input – Item # 20-0101001

Schucko CEE 7/4 AC Input – Item # 20-0101002

## World-Wide AC Power Harvesting

The 24VDC Grid-Tie Module (GTM) 2000 allows a Solar Stik Hybrid Power System to be connected to any world-wide AC power source (85–265 VAC), harvesting up to 2kW of power from it. The GTM offers optimal AC INPUT controls, allowing it to be tailored for operation with limited AC sources such as small generators, or up to its full rated power when harvesting from “clean” or “dirty” grid/shore AC sources.

When connected between an active AC power source (grid, prime or generator) and a Hybrid Power System’s Inter-Connect Circuit DC bus, it converts the incoming AC to DC, then pushes it onto the bus at a set voltage. Depending on the load requirements, the 2kW of power harvesting may allow the Hybrid System to run completely and indefinitely from the grid source, or just reduce the number of cycles on the ESMs over time.

If the load is LESSER than 2kW, the DC power being pushed onto the bus will both maintain (prioritize) power to the load while simultaneously charging the Energy Storage Modules (ESMs) until they reach the same voltage as the bus.

If the load is GREATER than 2kW, the load will continue to pull power from the ESMs, allowing them to cycle normally, but less frequently over time.

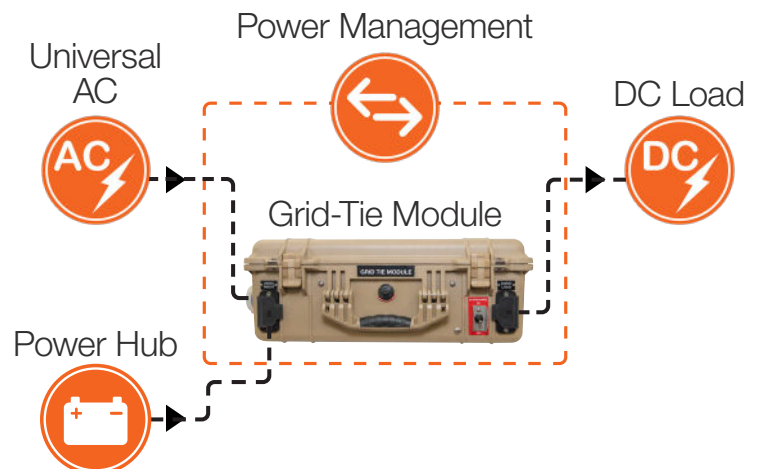
GTMs are modular, scalable components of the Solar Stik System, and multiple GTMs can be used in concert to meet higher load demands when warranted. They can be configured with region-specific connectors including NEMA, SCHUKO and more.

The lightweight, rugged design of the Grid-Tie Module allows for deployment into nearly any environment with the flexibility of “Plug & Play” operation for the user.



## Features

- 1kW to 2kW Power Harvesting
- Serves as a power filter/conditioner and transfer switch for hybrid power systems
- Weatherproof and Ruggedized Case
- Extremely Low-Maintenance
- Opens system architecture and optimize power capabilities
- Plug & Play setup
- Intuitive controls





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## General

Nominal Operating Voltage	24 VDC
Internal cooling	Forced Cooling (2) Internal fans
User Interface	<ul style="list-style-type: none"> <li>• Current meter and control dial</li> <li>• Voltage meter and control dial</li> </ul>
Case	Pelican 1600
Warranty	1-year materials and workmanship

## DC Charger Output (@77 °F/25 °C)

Output Voltage	25 - 29 VDC
Efficiency	84%
Charging Stages	CC / CV
Continuous Output Current	72 A
Output Power Rating	2088 W

## AC Charger Input (@77 °F/25 °C)

AC Input Frequency	47 - 63 Hz
AC Input Voltage	85 - 264 VAC

## Power Generation Options

Grid	≤ 2 kW
Generator	1-2 kW

## Safety

Breaker(s)	(1) AC input 20 A
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## Connection

Input(s)	(1) 85–265 VAC; 45–66 Hz
Output(s)	(1) Inter-Connect port, 24 VDC, 100 A
Input(s)/Output(s)	(1) Inter-Connect port, 24 VDC, 100 A



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## Environmental

Operating Temperature	-4 °F to 160 °F (-20 °C to 71 °C)
Storage Temperature	-4 °F to 167 °F (-20 °C to 75 °C)
Humidity Freeze, Damp Heat	20 to 90 % RH noncondensing
Ingress Protection	IP65

## Weights and Dimensions (L x W x H)

Weight	40 lb (18.15kg)
Dimensions	27 x 20 x 9 in (68.58 x 50.8 x 22.86 cm)

## Case Color Options

	Black
	Silver
	Orange
	Yellow



Standard Color    Optional Colors

## Recommended Components and Accessories



24VDC 5 Foot Inter-Connect Cable

Item # 13-0000032

