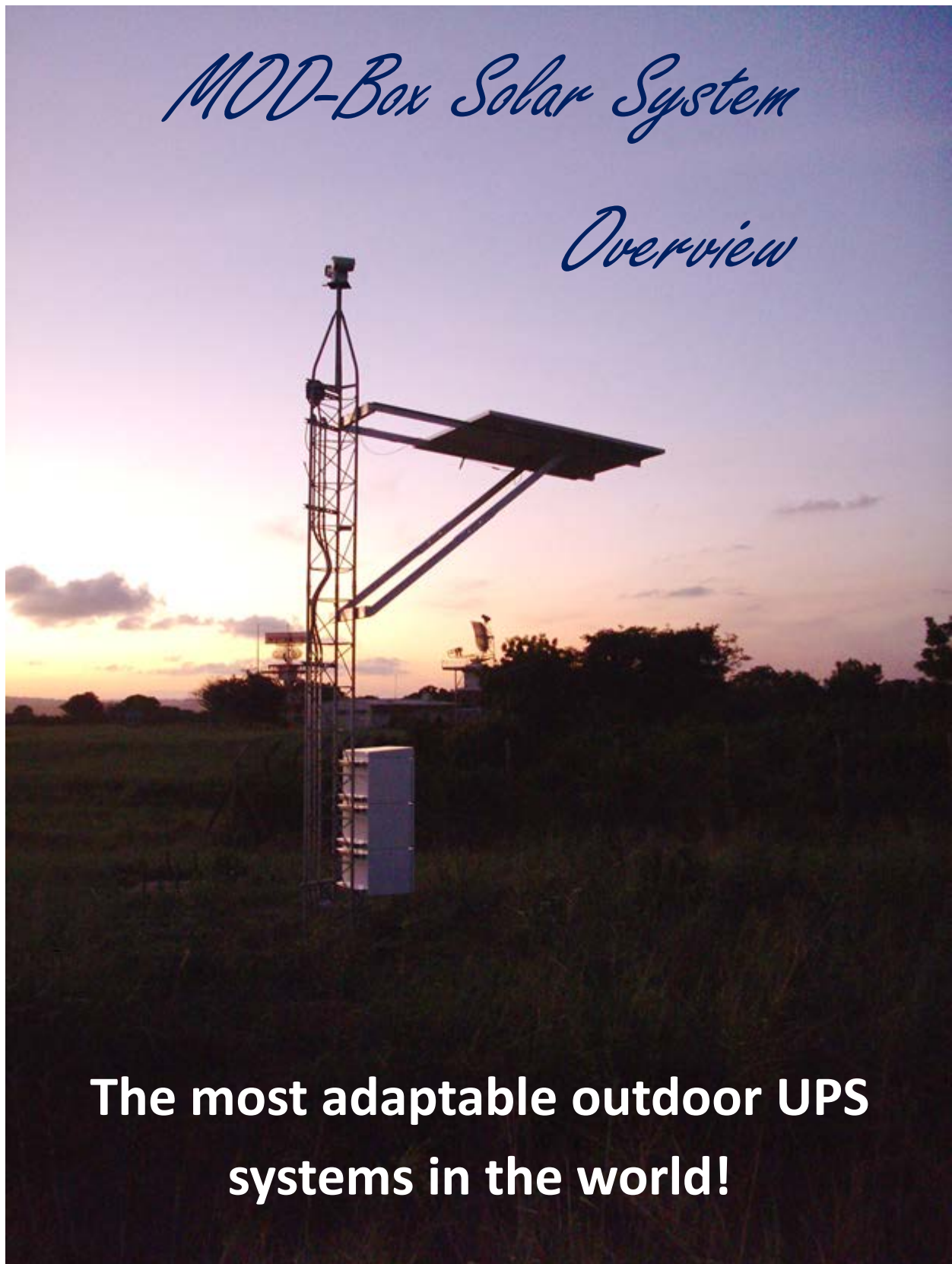


# *MOD-Box Solar System*

## *Overview*



**The most adaptable outdoor UPS  
systems in the world!**



## Features

- Design Philosophy**

Patronus Laboratories uses 20 year historical Solar and Weather data gathered by NASA to engineer its Solar systems. Utilizing key metrics gathered by NASA for every latitude and longitude on the globe, Patronus Laboratories design philosophy results in systems whose battery discharge level does not fall below 50% charge with 24/7/365 operation. This philosophy extends battery life, reduces cost of ownership and results in 99.999% system uptime.
- Multiple Solar Panel Options**

Multiple Solar array sizes are available to meet system needs from 85W up to 1500W.
- Expandable Battery Capacity**

Utilizing the stackable MOD-Box to house the batteries allows the internal capacity to be expanded to make room for additional batteries as required by the client load and region of installation. Each MOD-Box can hold 315aH of battery capacity. Available charge controllers support up to 1575aH of battery capacity.
- Expandable Equipment Capacity**

The MOD-Box is stackable allowing the internal capacity to be expanded to make room for client equipment.
- Multiple Mounting options**

The MOD-Box and Solar Panels can be mounted on Aluminum poles, Steel poles, Steel Towers, Trailers, Ground Mount, etc. as dictated by client needs.
- High security options**

Optional High security lock optional with Master Key system.
- Dynamic Systems Options**

The MOD-Box can also support any electronics provided by the client or by Patronus Laboratories. Patronus Laboratories specializes in analog and/or IP Video, Access Control, Radar Systems, SCADA data equipment, Audio and Wireless connectivity.

## MOD-Box Solar Power System Overview



## Overview

*Patronus Laboratories has created the most dynamic and versatile Solar Power system in the world. Based on the MOD-Box Patronus Laboratories can provide weather proof, fully filtered expandable enclosure system for all Solar system electronics, batteries and client equipment. The MOD-Box can be mounted on virtually any structure using the mounting bracket interface from 2-22 inches in diameter or any flat surface. The MOD-Box will support all Patronus Laboratories equipment plus any third party equipment.*

Contact Patronus Laboratories for a custom designed system. Once required details are gathered quotes can be provided within hours.

PRODUCT IDENTIFICATION CHART	
Division	Category
Access Control	Power supply
Computer Components	Generator
Fixed Platform	Solar
Housings/Mnts/Enclosures	Power Accessory
Mobile Platform	
Power Gen./Storage	
Tools/Equipment	
Video Surveillance	
Wire/Cables/Connectors	
Wireless Equipment	



MOD-BOX Solar Panel Options
1 x 120W Solar Panel
1 x 245 W solar Panel
2 x 245 W solar Panel
3 x 245 W solar Panel
4 x 245 W solar Panel
6 x 245 W solar Panel
8 x 245 W solar Panel
9 x 245 W solar Panel
12 x 245 W solar Panel
15 x 245 W solar Panel

MOD-BOX Battery Options
1 x MOD-Box, 1 x 105aH AGM Batteries
1 x MOD-Box, 2 x 105aH AGM Batteries
1 x MOD-Box, 3 x 105aH AGM Batteries
1 x MOD-Box, 1 x 97.6aH GEL Batteries
1 x MOD-Box, 2 x 97.6aH GEL Batteries
1 x MOD-Box, 3 x 97.6aH GEL Batteries

Power Output Options
12VDC, 24VDC, 48VDC, Adjustable 1-30VDC or 9-46VDC
Pure Sine wave inverters, 40VA @ 18VAC (for Bosch MIC Series Cameras), 40VA @ 24VAC, 100VA @ 24VAC
115VAC - up to 1250VA
230VAC - up to 1250VA
Any combination of the above

MOD-BOX Solar Panel Mounting Options
1 x 120W Solar Panel Side Pole
1 x 120W Solar Panel Top Pole
1 x 245 W solar Panel Side Pole
1 x 245 W solar Panel Top Pole
2 x 245 W solar Panel Side Pole
2 x 245 W solar Panel Top Pole
3 x 245 W solar Panel Side Pole
3 x 245 W solar Panel Top Pole
4 x 245 W solar Panel Top Pole
4 x 245 W solar Panel Top Pole with Tracker
6 x 245 W solar Panel Top Pole
6 x 245 W solar Panel top Pole with Tracker
8 x 245 W solar Panel Top Pole
8 x 245 W solar Panel top Pole with Tracker
9 x 245 W solar Panel Top Pole
9 x 245 W solar Panel top Pole with Tracker
12 x 245 W solar Panel Top Pole
12 x 245 W solar Panel top Pole with Tracker
15 x 245 W solar Panel Top Pole
15 x 245 W solar Panel top Pole with Tracker

Mounting Structures
Schedule 40 Pole - 14 foot
Steel Pole - 20-100 feet, any custom length
Triangular tower - 20 to 180 feet, 10 foot increments
Trailer with 25, 35, 45, 80 and 106 foot extendable mast

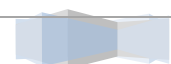
### System Configuration

The diversity of MOD-Box Solar Power Systems enables Patronus Laboratories to configuration a virtually unlimited number of systems; therefore it is required that customers contact the in-house design team to assemble the desired options into a MOD-Box Solar Powered Solution to ensure all technical aspects are properly addressed in the configuration and design. MOD-Box solutions are designed at no charge and within 48 hours of configuration requirements being provided. Required information is, but not limited to: Geographical Location, Mounting Structure type and height, Electrical equipment models, data sheets and quantities.

Patronus Laboratories will provide systems tailored to the customers' needs up to and including customization of MOD-Box internal and external mounting assemblies to support the customers' equipment. Factory As Builds drawings are available upon request. Factory or infield training is available on request.

Patronus Laboratories will mount, wire, configure and test any customer provided hardware on request or can provide a broad range of high quality products engineered for low power consumption, broad temperature ranges and harsh environments. The Patronus Laboratories available equipment is, but not limited to: Fixed or PTZ CCTV Cameras, Perimeter Intrusion Detection equipment, Access Control equipment, SCADA equipment, Copper or Fiber Communications equipment, Wireless Communications equipment, Public Address equipment, etc.

System design specifications are available for the cost of 1 system, payable in advance with no refund. Credit will be applied to 1 system purchase with order of intended quantity.



**System Images**



**20 Foot Solar Power tower open crate**



**20 Foot Solar Power tower closed crate for shipping**



**20 Foot tower with Solar**



**Ground Mount Solar system**

