

Winged Solar Solution

HAWKTM

DATA SHEET



HAWKTM Patent Pending

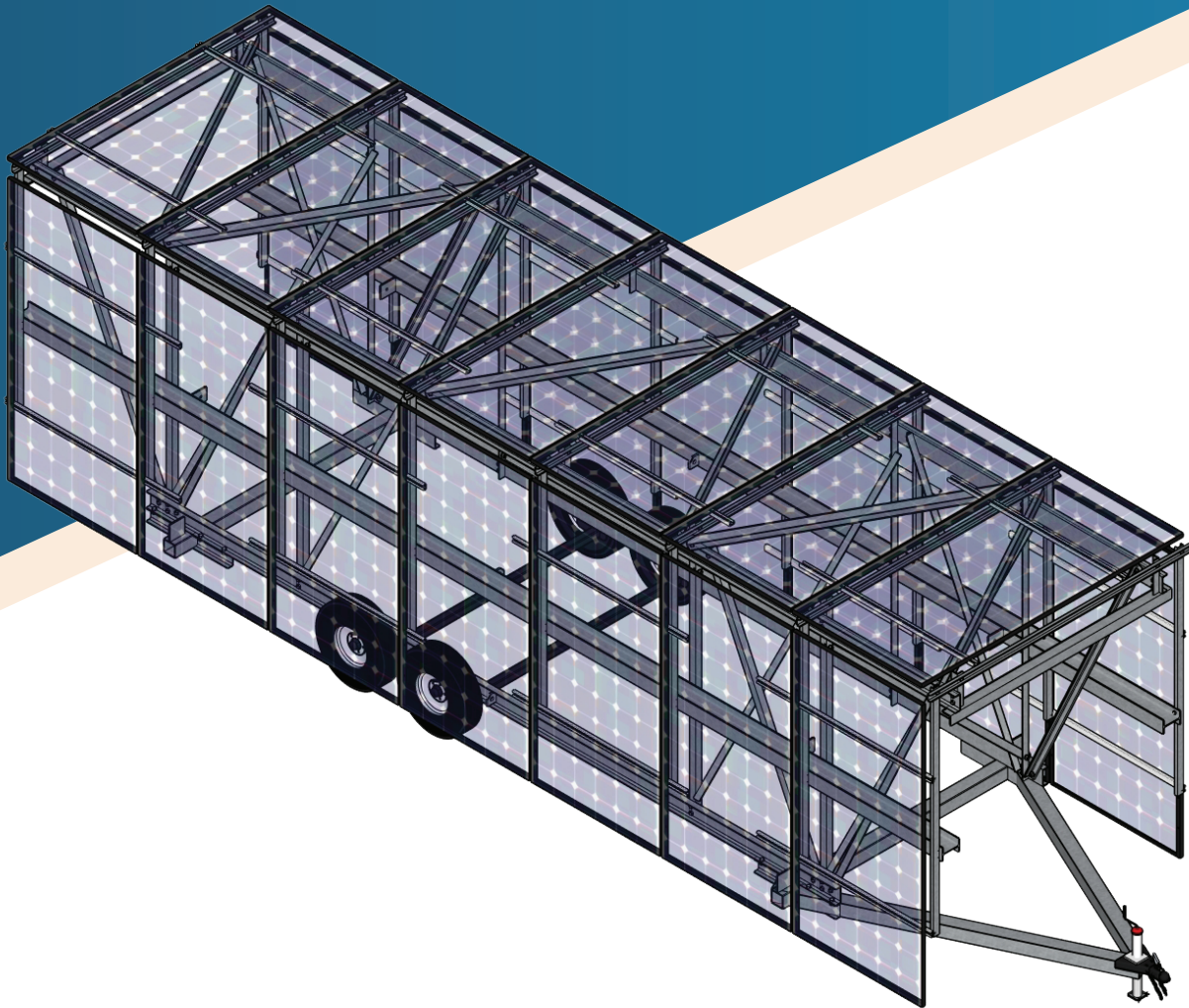
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Applications

- Rapid-deploy renewable power for off-grid or remote sites
- Disaster relief and humanitarian missions
- Military, construction, and telecom operations
- Mobile water-and-power (AWC) applications
- Temporary or redeployable energy infrastructure



Key Features

- **Mobile dual-axle trailer design** – towable and repositionable without cranes
- **Hydraulic lift-assist and leveling system** – deployable on uneven terrain in under 1 day
- **Compact transport footprint** – meets standard shipping and highway-legal limits
- **High ground clearance (11 in.)** – maintained even after wheel integration
- **Self-contained battery and inverter bay** – sealed and lockable cargo compartment
- **Expandable pairing** – connect a Hawk 2 to a Hawk 1 for additional PV input
- **No heavy equipment required** – full deployment by two-person crew



System Configuration

Hawk 1

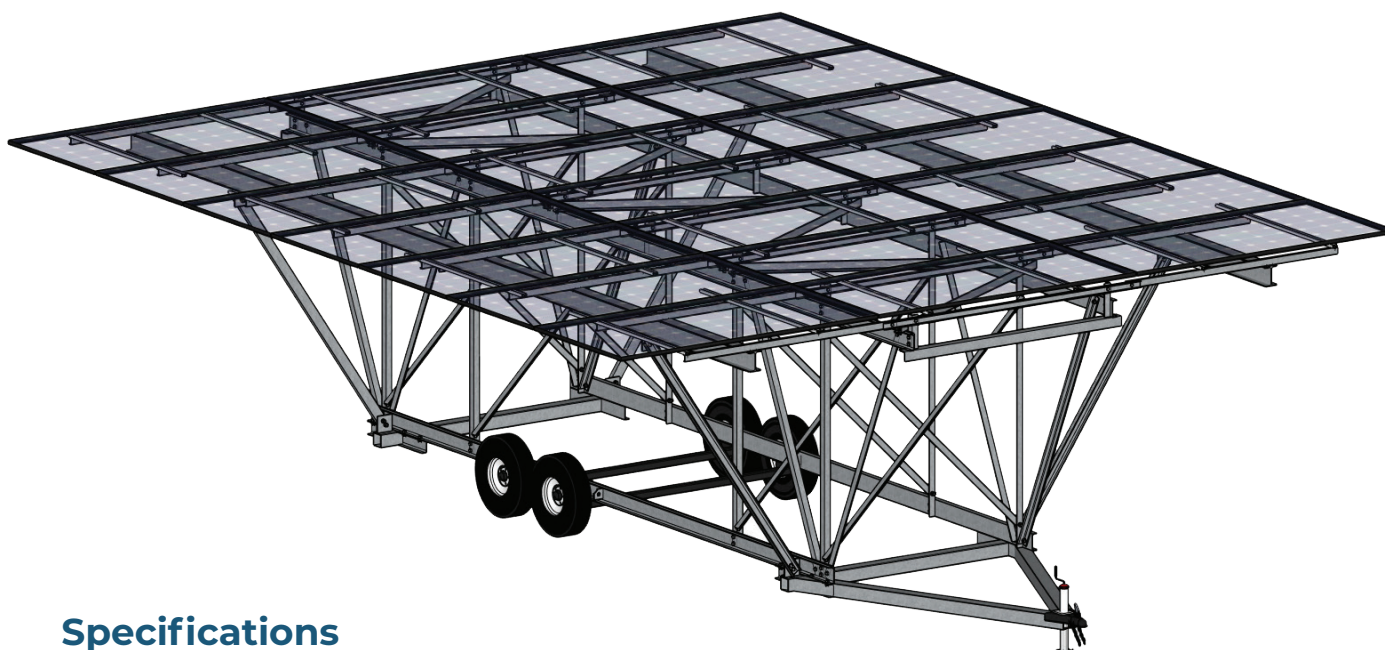
(Primary Power Unit)

- Integrated inverter and battery system
- Generates 13 kWdc
- Provides AC output via configurable 120/240 V, 208 V, or 480 V 3-phase
- Houses up to 160 kWh LFP battery storage
- Designed for independent or paired operation

Hawk 2

(Auxiliary PV Unit)

- Connects directly to Hawk 1 for expanded PV generation (~13 kW additional)
- No inverter or batteries onboard — relies on the Hawk 1 power electronics
- Ideal for applications requiring modular expansion or distributed layout



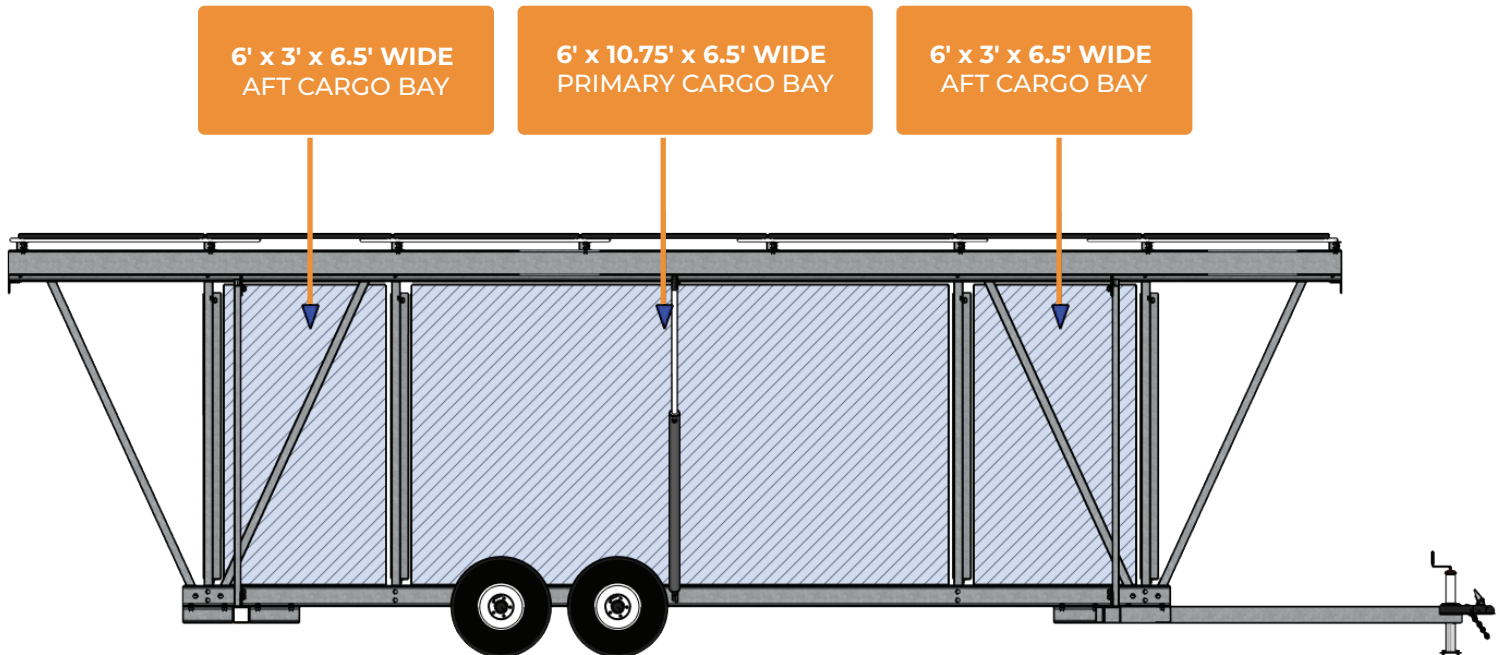
Specifications

Parameter	Hawk 1	Hawk 2
Solar Array	21 × CA Solar 620 W = 13 kWdc	21 × CA Solar 620 W = 13 kWdc (add-on)
Battery Capacity	80 kWh LFP (Integrated)	None (connects to Hawk 1)
Dimensions (L × W × H ft)	~27.8 × 24.4 × 11.0	~27.8 × 24.4 × 11.0
Weight (lbs)	≈ 6500	≈ 4500
Mobility	Dual-axle mobile	Dual-axle mobile
Deployment	< 1 day	< 1 day



Shipping Specifications

- Ships in folded transport configuration in 40' High Cube Shipping Container
- Towable with standard 2-5/16-inch ball or pintle-hitch
- Requires only flat, graded surface and 120 V aux power for startup (if needed)
- Typical deployment: under 8 hours, no cranes required



Electrical and Safety

- **Inverter:** UL 1741-SA / IEEE 1547 compliant, integrated rapid-shutdown control
- **Battery:** LFP (LiFePO₄) chemistry for thermal stability and long cycle life
- **Monitoring:** Real-time telemetry and remote diagnostics available
- **Compliance:** UL 9540, UL 1741-SA, NFPA 855, NEC 2017/2020 (RSD)

Confidentiality Notice

Patent Pending – The Hawk 1 and Hawk 2 systems incorporate proprietary, patent-protected solar deployment and mobility technology developed by Winged Solar Solutions, Inc.

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