

WINDCUBE®

POWER SUPPLY

MODERATE CLIMATE PV TRAILER

Provide reliable remote power to your Windcube Vertical Profiler with NRG's trailer-mounted, solar photovoltaic-based power supply. Economical, portable, and consistent, this solution simplifies Windcube deployments across North America and enables measurement campaigns in remote locations.

Key Benefits

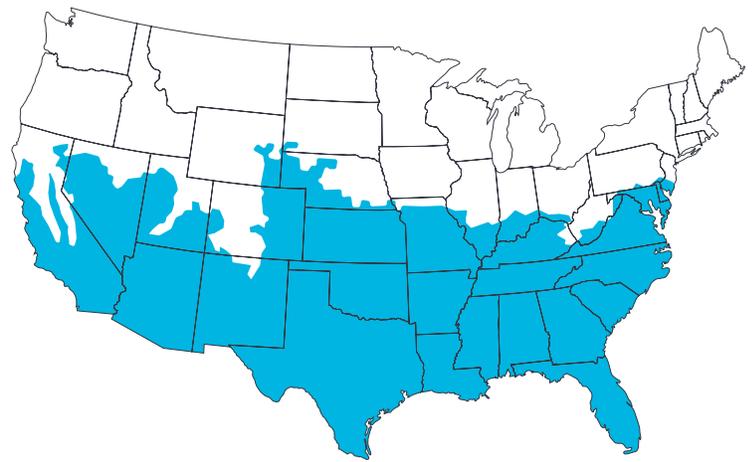
- Near 100% Vertical Profiler annual uptime at most sites in the United States
- Approximately 5 days of full operational autonomy in total absence of sunlight in moderate climates
- Deployable by 2 people in flat, stable terrain
- Safe and reliable to transport on public roads over long distances
- Flexible mounting for PV array
- Remote monitoring of battery voltage and other key characteristics via shared Windcube communications system
- Trailer enclosure sealed against intruders, with housing for Windcube Vertical Profiler, PV panels, batteries, and hardware for safe and secure travel



NRGSystems™

Windcube Power Supply Moderate Climate PV Trailer Suitable for Projects in Blue Region

This map is approximate—when choosing a power supply, always make final determination based on site-specific data



SPECIFICATIONS

PV Modules	
Number of Panels	3
Total and Per Panel Capacity	1035W (3 panels at 345W each)
Racking System Description	Aluminum hinged frame deployable to 28, 40, and 52 degrees from horizontal. Can be folded 90 degrees alongside of trailer for short transport.
Panel Storage	Provisions for storing frame, panels, and Windcube Vertical Profiler inside for transport.
Batteries	
Type	8G30H sealed-gelled lead-acid
Total and Per Battery Capacity	600Ah @ 24V total capacity (12 batteries at 100Ah @ 12V each)
Storage System Description	Two (2) floor-mounted battery boxes (4 battery & 8 battery)
Weight and Dimensions	Approx. 1,000lbs (batteries and boxes)
Charge Controller	
Model	Morningstar PS-30M (30amp with monitor)
Electrical Cabinet	Internal wall-mounted 20" x 20" electrical enclosure with charge controller, monitoring board, and disconnect/breakers. Three (3) load breakers for 24V (10amp, 5amp, & 5amp).
Windcube Deployment	
Platform	Outside trailer, mounted to trailer tongue. Steel fold down, shielded on sides, mesh floor. Includes power cord outlet.

TRAILER

Weight	Approx. 2,500lbs		Leveling	Tongue jack, two extendable side jacks, and rear adjustable support posts
Overall Length	14'2"		Anchoring	Four (4) 4" screw-in anchors and cabling provided
Overall Height	7'11"		Tools	Deployment tools included
Overall Width	7'8"		Shipping Arrangement Description	Typically delivered on flatbed
Interior Length	10'			
Interior Height	6'1"			
Interior Width	5'8"			
Axle	Single, 2,990lb			

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