

The Avlite High Mobility Airfield Lighting System (AV-HMALS®) is a robust and durable family of systems available in AC, solar or hybrid solutions. It is used for storage of both military and emergency airfield lighting. All variants of the AV-HMALS® can accommodate up to 10,000 ft runways.

Key Features:

- In-Trailer Charging
- AC Powered, Solar, or Hybrid
- Easily Configurable to Airfield Lighting Needs

Standard



AC Input

In-Trailer
Charging

Optional

Radio
Frequency

Solar



Battery Backup



Roadworthy Trailer



High Density Trailer

Roadworthy vs High Density

The family of airfield lighting systems are stored in one of two trailer configurations depending on airfield requirements:

- The Roadworthy trailer is a high mobility trailer that supports both on-road and off-road movement. It is ideal for varying terrains and offers the greatest flexibility in deployment options.
- The High Density trailer is designed for compact airfield lighting system and is compatible with a variety of containers and pallet systems. It is ideal for when the customer wants to optimize packaging footprint, shipping space, and cost.

Integrated Charging

An integrated AC trailer charging system ensures every light is fully charged in storage for immediate use.





Roadworthy Standard

Roadworthy Extended

High Density

General Characteristics

Maximum Vehicle Weight (lbs/kg)	4200 / 1905	5000 / 2268
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Physical Characteristics

Hull Material	Unitized body construction using aircraft grade aluminum and chromoly steel		Steel finished with primer per MIL-PRF-23377 Type I, Class C, coating per MIL-PRF-85285 Type II, Class H in FED-STD-595 COLOR 33446
Overall Length (inches/mm)	135.6 / 3444	169.5 / 4305	80.5 / 2045
Overall Width (inches/mm)	87.2 / 2215	87.2 / 2215	49 / 1245
Overall Height (inches/mm)	71.2 / 1808	73 / 1854	Variable
Track Width (inches/mm)	72.5 / 1842	72.5 / 1842	48 / 1219
Drawbar Length (inches/mm)	93.2 / 2367 (from axle center to eye center)	105 / 2667 (from axle center to eye center)	48 / 1219 Note: Towbar is foldable; can be removed and stored in sleeve located on trailer bed.
Drawbar Eye Height (inches/mm)	29.5 / 749		Variable
Deck Height (inches/mm)	34.5 / 876		27.25 / 692
Ground Clearance - Laden (inches/mm)	16 / 406 (minimum)		7 to 8 / 176 to 203 Ground clearance when fully laden is sufficient to meet the vehicle ramp crest limits of MIL-STD-1791 for military transport aircraft, such as the C-130.

Running Gear

Suspension Type	Fully independent progressive rate trailing arm suspension	-
Axle	Tubular steel	Solid front and rear axles
Spring Media	Progressive rate torselastic rubber chords	-
Shock Absorbers	Telescopic, direct acting, one per wheel, HMMWV compatible	-
Wheels	16.5 x 8.25, two piece steel, HMMWV compatible, 8 on 6.5 inch bolt pattern	6.00-9 (A-A-59494/4A)
Tires	37x12.50R16.5 Goodyear Wrangler M/T, with 30-mile runflat inserts, HMMWV compatible	Pneumatic, Industrial, 6.00-9 (ZZ-T-410)
Brakes	12 inch x 2 inch free backing hydraulic surge brakes with automatic breakaway actuation. Independent lever-operated left and right side mechanical parking brakes.	Manual hand brake
Electrical System	24VDC sealed lighting system with blackout convoy lights, 12 pin connector plug mates with HMMWV	-

Performance

Max Speed - Primary Roads (mph/kph)	55 / 88	25 / 40
Max Speed - Secondary Roads (mph/kph)	35 / 56	-
Max Speed - Off Roads (mph/kph)	20 / 32	-
Departure Angle	39°	25
Turning Angle	80°	-

Certifications and Compliances

Quality Assurance	ISO 9001:2015	-
SAE	-	AS8090 Type II, Group C
Air Transportability	-	MIL-STD-1791 and MIL-P-9024G
Trademarks	AVLITE® and AV-HMALS® are a registered trademark of Avlite Systems	

Other

Warranty *	3 year warranty	
Available Options	-	Rugged Carrying Cases Intermodal Containers
Terms and Conditions	Please refer to product installation manual for further specifications. Warranty Terms and Conditions available at www.avlite.com .	

Technical Illustrations

Trailers shown are example configurations. Cabinet configurations vary depending on customer requirements.

Roadworthy Standard



(Lighting)

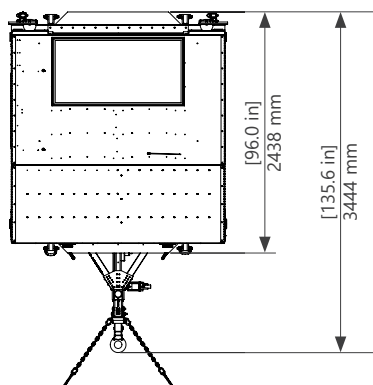


(Power & Communications)

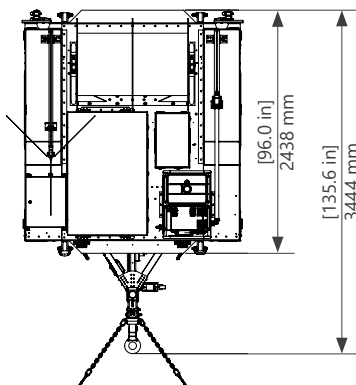
High Density



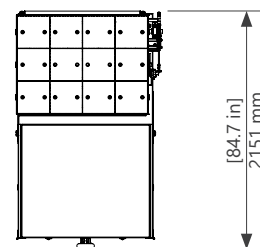
Top View



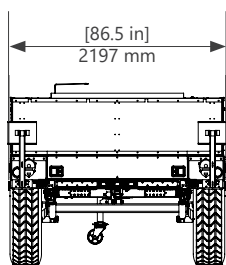
Top View



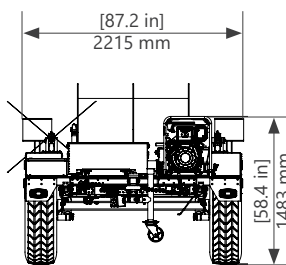
Top View



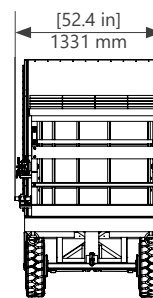
Rear View



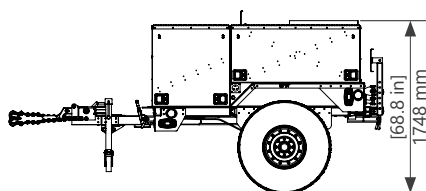
Rear View



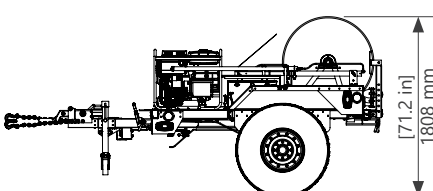
Rear View



Side View



Side View



Side View

