

# MERLIN<sup>®</sup>

## PATHFINDER 6L300W-ACTB



### Mine Specification LED Mobile Lighting Tower

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### PATHFINDER Features

*The MERLIN PATHFINDER series of lighting towers is designed to the highest quality standards providing the latest in LED (light emitting diode) technology in a mine ready, efficient, reliable, durable and environmentally friendly package.*

- Mine site Ready, Heavy Duty Reliable Lighting Tower
- Up To 17 Days (142 hrs) Run Time Between Refueling
- Robust Latest Technology LED Light Fixtures Provide More Useable Lumens Per Watt
- Exceptional Fuel Consumption Up To 70% Less Than Conventional Lighting Towers
- Reduced Carbon Footprint – Power Efficiency And HAZMAT Disposal
- 110% Fluid Bunding To Prevent Spills
- Single Person Deployment
- High Engine Temperature, Low Oil Pressure And Low Fuel Warning And Shutdown
- Hydraulic Articulated Tower With Outreach Capability
- Hydraulic Controls In Control Panel
- Bio Degradable Hydraulic Fluid In Hydraulic System
- Dependable And Efficient Diesel Power
- Externally Mounted Emergency Stop Switch
- Fuel System Protected By Water Separator And 2 Micrometric Filter
- Standard Engine Oil Sampling Point And Oil Evacuation Pump Available
- Fully Lockable Control Cabinet And Enclosure
- Three Access Doors With Gas Struts For Ease Of Maintenance And Inspection
- Internal Enclosure And Panel Work Lights Available
- Battery And Starter Motor Isolation Available
- Heavy Duty Trailer Chassis With Independent Suspension Axle
- Trailer Lights And Brake Options Available
- Off Highway Puncture Proofed 16" Tyres
- 4 x Wind Down Stabaliser Jacks With Additional Transport Jack
- Fork Pockets And Four Lifting Points For Ease Of Transport
- Heavy Duty Skid Mount Available



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### **THE FUTURE OF LIGHTING IS HERE**

**MERLIN Pathfinder uses the latest in advanced LED lighting technology creating new and exciting opportunities for improvements over current HID lighting**

- 60% to 80% Less Energy Consumption - Reduced Carbon Footprint
- Low Voltage on Tower Mast
- Minimal Lifetime Lumen Depreciation
- Longer Lifetime – 50,000 hours +
- Directionality, Improved Light Balance and Quality
- Durability and Reliability High MTBF
- No traditional maintenance costs of re-lamping and re-ballasting in hard-to-access areas during the lifetime
- No certify electrician required for the maintenance
- Utilizes a solid state lighting element, eliminating several risk factors associated with HID lamps
- Turns on instantly, no cool down time for re-strike
- Generate significantly less heat when compared to HID lamps
- Reduce night sky light pollution
- Contain no lead mercury or other hazardous materials, and are made from fully recyclable materials - No HAZMAT disposal challenges
- Even though a lower lumen reading is obtained with LED vs. HPS or Metal Halide; the LED will produce more useful light.



#### ***Light Fixture Specifications and Features***

Designed for Heavy Duty Applications  
Die-Cast Aluminium Slim Line Housing  
Mil -spec LED Board Connections – Vibration Resistant  
Built to IP68 ratings  
LED Covers – Damage Resistant  
2800K to 6000K Crisp Light for Excellent Colour Rendition  
31,680 Raw Lumen Output Per Fixture  
LED Life > 50,000 Hrs maintenance free to 70% lumen maintenance  
> 94% Driver LED Efficiency  
Operating Temperature -35 to +85 °C  
Short Circuit Protection Auto Recovery  
Instant On – Including After Power Disruption  
Redundancy – Each Light Fixture has 4 Independent LED Controllers  
(1 per 25 LED panel) No One Controller or LED can cause a Complete Failure  
Safety Agency Approvals UL8750, EN61347-1, -2, -13

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### PATHFINDER Specifications

#### Standard Equipment

Height	2640 mm	Mast Lift	Hydraulic
Length Draw Bar Retracted	2430 mm	Mast Extension	Hydraulic
Width	1770 mm	Lamp Bar Tilt	Hydraulic
Mast Fully Extended	8000 mm	Mast Rotation	350 Degrees Manual
Mast Horizontal Outreach	2900 mm	Stabilisers	4 x Manual
Weight Gross Max	1250 kg	Tyre and Rim Size	225/75 x 16", 16" x 7
Engine	Diesel	Tow Hitch	Ring Hitch
Fuel Consumption	0.7 L/h*	Lifting Points	4
Fuel Capacity	100 Litres	Emergency Shut Down	1 External Mount
Alternator	4 KVA	Battery and Starter Isolation	1 Internal Mount
Volts	48 VDC		
Starting Battery	70Ah 12 Volt		
Warning/Shut Down	High Engine Temp, Low Engine Oil Pressure Low Fuel Level Alternator Charge		
Lights Type	LED - Light Emitting Diode		
Number of Lights	6 x 300 Watt		
Light Output	190,080 Raw Lumens		
Light Adjustment	Pan & Tilt Manual		
Hydraulic System	12 VDC Electric		
Hydraulic Fluid	Bio-degradable Fluid		

#### Optional Equipment

FOG LED	
Different LED Beam Pattern	
Lock Out Tag Out (LOTO) Battery Isolator	
Operation Beacon light	
Enclosure Light	
Wheel Chocks	
Fire Extinguisher	
Oil Sump Pump	
Trailer Light and Wiring	
Heavy Duty Skid Mount	* All Lights On



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