

# POWERTOWER®

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# LIGHT TOWERS



*The brightest solution to portable lighting problems*

**Frontier**  
POWER PRODUCTS

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# POWERTOWER®

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# LIGHT TOWERS

PowerTower® portable lighting towers are built to withstand Western Canada's severe operating conditions. If you need reliability, durability, operating economy and versatility combined in a superior, field proven unit, look to PowerTower®.

Most lighting towers are designed for use in urban settings such as roadsides, airports or building construction sites. PowerTower® machines will easily handle these tasks and they will outperform competitive machines in the more demanding conditions found in oilfield, pipeline and mining applications. PowerTower® offers better flexibility and value.

Versatile PowerTower® portable light towers can be configured to provide up to 25kWe\* of electrical power for better machine utilization. This electrical power generating capability is available with a variety of distribution options to tailor the machine to your specific needs.

**Reliability:** The highest quality engines and generators are used. Special care is given to the smallest details to assure dependable, durable service.

**Versatility:** PowerTower® is available as a portable lighting tower or as a combined A.C. generating set and lighting tower. This allows greater utilization of the machine. Generator outputs from 6 to 25kWe\* are available. To enhance this versatility, several electrical distribution configurations are offered.

**Environmentally Responsible Construction:** We realize that our portable lighting towers may be used in very sensitive environments. To minimize the risk of accidental fuel, lubricating oil or coolant spills, PowerTower® trailer mounted machines have a containment feature. A sealed pan under the engine/generator and standard fuel storage tank provides an extra margin of safety against environmental contamination.

**Extreme Climate Capabilities:** Originally designed for usage in Canada's northern oilfields, PowerTower® outperforms other machines in cold climates owing to its optional dual control system. There is significantly less engine wear and fewer cold oil related problems. The same system that works well in cold climates offers superior cooling in high ambient temperatures.

**Simplicity:** The PowerTower™ uses simple, easy to repair or replace components.

\* Larger kWe outputs are available on skid style or custom built machines.

We build quality and common sense into the PowerTower® portable lighting/generating system.



# LASTING LIGHTING VALUE

## Trailer - D.O.T. Approved

- Frame is 3.5" x 2.5" tubular construction
- 3,500 lb. rated "Torflex" axle
- 15" wheels
- Two 2000 lb. galvanized rear outriggers with spring loaded locking pins, 2,000 lb. jacks and swivels
- 190 litre (42 Imp. gal.) fuel tank with gauge and drain
- Four transport tiedowns
- Hitch with pintle/ball, front leveling jack, safety chains and hooks (2 chains)

## Canopy

- 14 Gauge, welded construction
- Bolted to frame for easy major service access
- Internal light storage with support frames, light hangers and bumpers
- Radiator grill (removable for cleaning)
- Nylon, replaceable (bolt on) fenders
- Aluminum checker plated front surfaces
- Access doors, both sides, with:
  - Paddle latches with handles - lockable
  - Stainless hinge assemblies
  - Weather stripping
  - Bumper stops for overcentre "open" position
- Tower
- 4 - 1,000W, metal halide lamps with lens guards & bulb supports
- Positive vertical lock
- Galvanized, 3 section 30' mast, square tubing, 4"3"/2"
- Lowered position positive lock
- Double winch, tilting and raising system:
  - 1,500 lb. self-braking winches
  - 1/4", stainless, aircraft cable
  - Bushed sheaves
- 14 gauge 4"x4" cable collector
- Weatherproof terminal box
- Light bar for 4 across or 2 X 2 over and under
- Unit lifting eye for single point lifting
- Weather tight light cord connectors

## Generator Set (standard)

- Kubota liquid cooled diesel engine
- Single or three phase output
- Block heater
- 50/50 antifreeze

## Generator Set (*continued*)

- Stamford reconnectable 12 lead alternator
- Brushless
- Safety shutdowns; low oil pressure, high coolant temperature
- Engine controls
- Oil and coolant gauges
- Hourmeter
- Vibration isolators with "crash stops"
- Extended oil drain valve
- From 6 kWe to 25 kWe ratings

## Electrical Distribution (standard)

- 115V duplex outlet with breaker protection
- 125/250V, 30A receptacle
- Main circuit breaker
- Four circuit breakers (1 per light @ 15A each)
- Single or three phase distribution options
- Pin and sleeve receptacle option
- CSA approved

## Standard Finish

- All components sandblasted before finishing
- All components of trailer and canopy primed
- Painted with "powder coat" type finish
  - Trailer
  - Hitch
  - Canopy (with "satin coat" for rust protection)
  - Tank
  - Miscellaneous attachments
- Aluminized checker plate guarding on front sections of trailer and canopy
- Galvanized:
  - Mast sections
  - Rear mast supports
  - Two rear outriggers

## Options

- John Deere engines
- Custom electrical distribution, 3 phase and 1 phase
- Custom colours
- Thermostatically controlled radiator shutters
- Electric winches
- Skid configurations
- Long Run Oil System® extended oil sump
- Racor fuel/water filter
- 30 gallon fuel addition
- Other options by request

## *Basic Specifications*

Light fixtures	4 - 1000 Watt metal halide c/w ballasts
Initial lumens	440,000
Coverage	5 - 7 acres (2 - 2.8 hectares)
Wattage	4000 W
Tower height	30 feet (9 metres)
Engine type	Liquid cooled diesel
Engine manufacturer	Kubota (standard), John Deere (optional)
Generator manufacturer	Stamford Newage
Generator type	4 pole, brushless, 1800 rpm
Fuel tank capacity	42 Imperial gallons, 50 US gallons (190 litres)
Weight	2625 lbs. (1190 kg)
Dimensions	Length 173" (4.41 m); Width 80" (2.04 m); Height 73" (1.86 m)
Approvals: trailer	D.O.T. (Canadian Department of Transport)
Approvals: electrical	C.S.A. (Canadian Standards Association)

*Product improvements may cause specification changes*

## *Optional Skid Mounted Tower/Generator*



- Various electrical outputs available to 100 kW
- Kubota or John Deere engines
- 100 Imperial gallon (453 L) fuel tanks (standard)
- CSA approved electrical distribution
- Single and/or three phase
- Many optional configurations

*US & Canada toll free:*

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