PROGRAMMABLE SOLAR LIGHT TOWERS

MODEL WLTS-MM
PRODUCT SPECIFICATIONS | FEBRUARY 2024
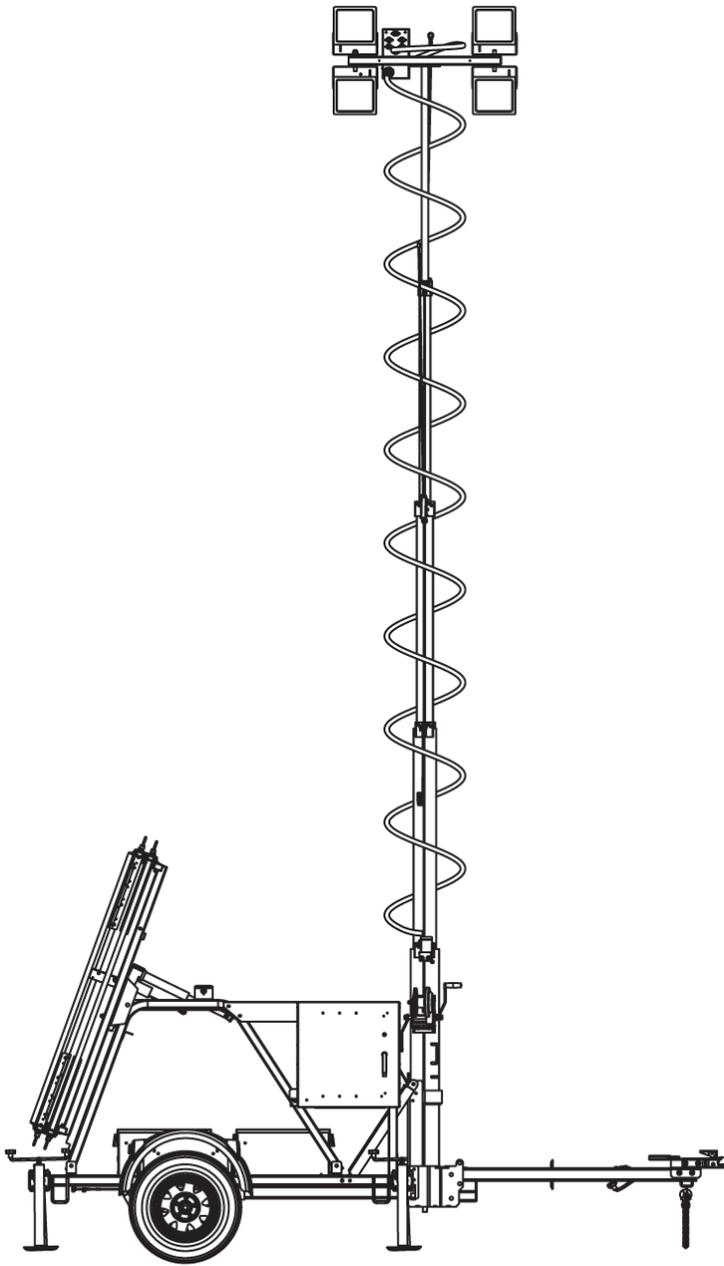
1.   SYSTEM

1.1.   Description   Wanco® Programmable Solar Light Towers provide LED lighting on a versatile platform. Unique features include ultra-bright LED lighting, a highly efficient power system, and variable programmability for autonomous operation.

Four high-efficiency, high-output, dimmable light fixtures top a telescoping tower. Lights can be aimed individually without tools, and operate at any height. The vertical tower rotates nearly 360 degrees without lowering the lights. A winch and cables raise and lower the tower smoothly and easily.

Power is provided by batteries, which are charged by an automated solar charging system. The state-of-the-art solar power system uses the latest technology to ensure the greatest possible charging capacity and longest run times. The solar panel array tilts from horizontal to nearly vertical to optimize charging year-round.

The control system uses a touchscreen interface for manual and automatic on/off control of the lights. Advanced programming options include individual light control, and flexible scheduling by time, day, and calendar date. Manual control is achieved with a single button on the main screen. Multilevel password protection can be enabled or disabled.

1.2.   Models

1.2.1.   WLTS-MM-800   Programmable solar light tower with 800-watt solar array, 400 amp-hour battery bank

1.2.2.   WLTS-MM-1600   Programmable solar light tower with 1600-watt solar array, 800 amp-hour battery bank

1.3.   Temperature limits   Operating   −40 to 122°F (−40 to 50°C)

Storage   −40 to 158°F (−40 to 70°C)

2.   FEATURES

2.1.   Setup
- Portable trailer is easy to tow and deploy
- Four leveling jacks provide stability
- Tilting drawbar folds up for smaller footprint for storage and when deployed
- Light fixtures tilt and rotate independently and hold their position without tools
- Single winch raises and lowers the tower smoothly and easily
- Dual electric actuators tilt solar array to any angle from horizontal to nearly vertical
- Telescoping tower rotates nearly 360 degrees, reducing the need to move the trailer
- Lights operate at any height

2.2.   Operation
- Full-color touchscreen controller with high-resolution display
- Control four LED light fixtures individually or all together
- Turn lights on or off with a single button
- Programmable automatic on/off with brightness control and time-day-date schedule
- Weather-resistant control box cover has lockable three-point latch
- Smart digital battery monitor for viewing the most useful power information
- Bluetooth® power management app for mobile devices

2.3.	Power system	• Battery powered and solar charging
		• Energy-efficient operation with ultra-fast MPPT solar charging
		• Solar panels charge batteries automatically without intervention
		• Charging system varies power input as needed to keep batteries fully charged, preventing damage and prolonging battery life
		• Power system allows battery charging with solar panels or commercial power
		• Low-voltage-disconnect circuit shuts down power if battery voltage drops below setpoint, preventing damage to batteries and electronics
		• Maintenance-free AGM batteries require no access
		• Battery box cover is bolted closed to deter tampering
		• Control panel includes master power switch for power shutoff during servicing
2.4.	Maintenance	• All-welded structural steel frame ensures durability and long life
		• Durable powder-coat finish resists the elements
		• Standard trailer tires
		• Bolt-on fenders can be replaced if damaged
		• LED taillights
2.5.	Application	Common applications include:

- Parking lots
- Special events
- Construction sites
- Material staging areas
- Freight yards
- Security operations/checkpoints

3. LIGHTS

| 3.1. | Description | Four high-efficiency dimmable LED light fixtures |

3.2.	Standards	IP67
		IEC protection: Safety Class I
		CE certified
		EU RoHS compliant

3.3.	Luminous flux		100% brightness	50% brightness
		800 model	23,232 lumens per fixture	12,818 lumens per fixture
			92,928 total lumens	51,272 total lumens
		1600 model	32,045 lumens per fixture	16,022 lumens per fixture
			128,180 total lumens	64,088 total lumens

| 3.4. | Light color | 5000K |

| 3.5. | Field angle | 60 degrees |

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3.6.   Photometrics

3.6.1.   Coverage area   Total coverage at 0.5 foot-candles or greater with lights at 100% brightness and fixtures tilted 15° down from vertical:

800 model	21,325 sq ft (1980m^2) 0.4895 acres
1600 model	26,510 sq ft (2460m^2) 0.6086 acres

3.6.2.   Isolines   800 model

1600 model

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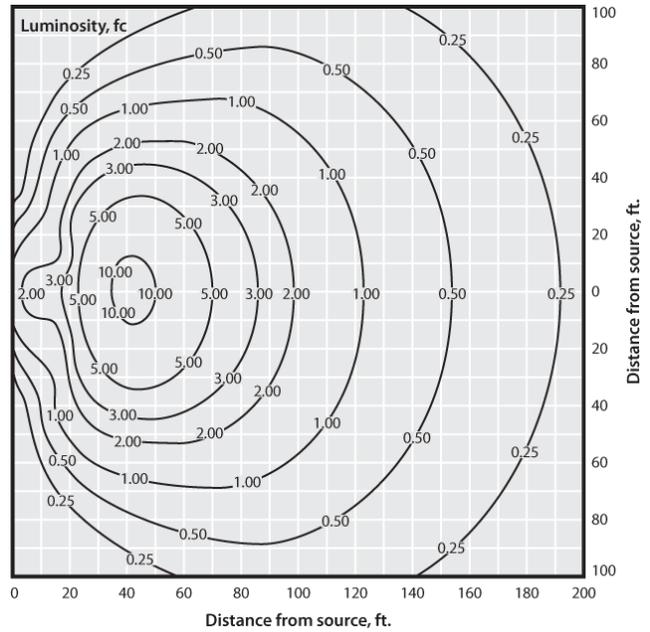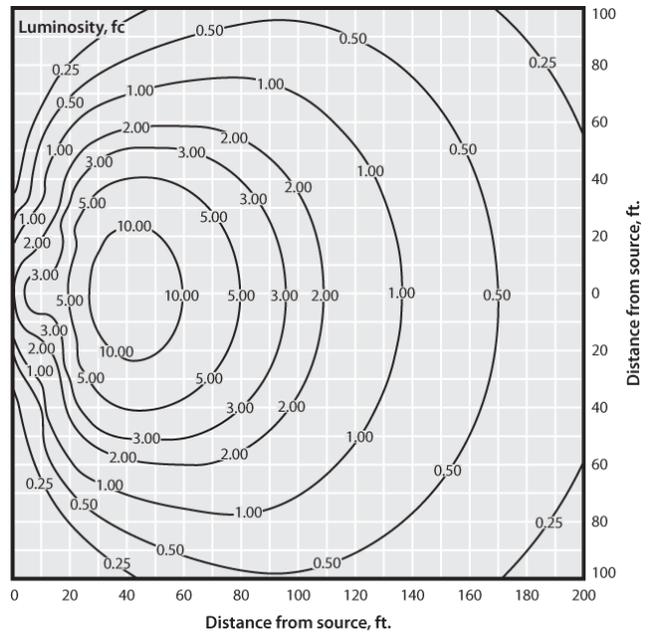
3.7.	LED lifetime	50,000 hours	
3.8.	Power draw	800 model	160W @100% brightness
		1600 model	200W @100% brightness
3.9.	Input voltage	24Vdc	
3.10.	Input current	800 model	6.7A max.
		1600 model	8.3A max.
3.11.	Polarity protection	Reverse voltage up to 45 Vdc	
3.12.	Temperature limits	Operating	–40 to 122°F (–40 to 50°C)
		Storage	–40 to 158°F (–40 to 70°C)
3.13.	Fixture material	Black aluminum housing	
		Clear polycarbonate lens	
3.14.	Fixture size	800 model	9.5 x 8.7 x 3.9 in. (240 x 220 x 98 mm), W x H x D
		1600 model	9.5 x 10.4 x 3.9 in. (240 x 265 x 98 mm), W x H x D
3.15.	Mounting brackets	Each light fixture installed on a swivel bracket	
		Bracket allows light to rotated and tilted without tools; friction and tensioning hold lights in place	
3.16.	Weight	11.0 lb (5.0kg)	

4. CONTROL SYSTEM

4.1.	Control box		
4.1.1.	Function	Weatherproof control box contains system electronics	
4.1.2.	Location	Securely fastened to uprights behind tower on right side of trailer	
4.1.3.	Size	24 x 25 x 10 in (610 x 635 x 254 mm), W x H x D	
4.1.4.	Material	12 ga 5052-H32 aluminum sheet	
4.1.5.	Door	Hinged door panel with rotating handle and three-point latch	
		Door is hinged on the right and opens fully; a telescoping prop-slide holds door open	
		Handle can be locked with user-supplied padlock for added security	
4.1.6.	Finish	Control box and door are coated with oven-baked, equipment-white powder-coat finish to ensure durability and corrosion protection. Assemblies are run through a five-stage, high-pressure phosphate-wash prior to application of the finish coat.	

4.2.   Control panel

4.2.1.	Touchscreen	Function	Control and monitor lights and system settings
		Display	Full color, backlit 7-inch display
			Capacitive touch panel
			800 x 480 pixels, W x H
			Display automatically shuts off after 10 minutes of inactivity; screen timeout delay is configurable
		Interface	Graphical interface, operated with virtual buttons on the touchscreen display, provides control of lights and various system settings

4.2.2.	Battery monitor	Smart digital battery monitor with LCD display provides:
		Battery voltage
		Current and power to batteries (solar charging)
		Current and power from batteries (power draw)
		Amp-hours consumed
		Battery state of charge/SoC (remaining power)
		Approximate battery time remaining with lights on
		Built-in Bluetooth for enhanced local monitoring
		See "Options and Optional Equipment" for remote power monitoring options

4.2.3.	Power disconnect	Master power switch disconnects battery and solar charging, for use during servicing

4.2.4.	Serviceability	Hinged control panel folds down for access to connections and electronics
		Two plunger panel latches easily fasten or release panel; a rubber bumper supports panel when down

4.3.	Compass	Removable compass stored on interior of door for use when positioning trailer to optimize solar charging
		Compass attached to door with lanyard

4.4.   PC boards

4.4.1.	Coating	100% coated with military-spec, low-VOC, silicone conformal coating to provide long-term protection against moisture and other atmospheric contaminants. Resists corrosion and shorts due to high humidity.

4.4.2.	Temperature limits	Operating	–40 to 176°F (–40 to 80°C)
		Storage	–40 to 185°F (–40°C to 85°C)

4.4.3.	Humidity limits	Conformal coating rated to 95% relative humidity

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4.5.	Solar charger	
4.5.1.	Description	Smart maximum power point tracking (MPPT) solar controller regulates solar charging
4.5.2.	Features	Ultra-fast MPPT
		Optimizes solar energy harvest and battery charging even with partial solar shading
		Exceptional conversion efficiency exceeds 98%
		Improves energy harvest up to 30% over PWM charge controllers
		Automatic battery voltage recognition
		Built-in Bluetooth for enhanced local monitoring
		External battery voltage, temperature and current sensing via Bluetooth
4.5.3.	Current	800 model 35A rated charge current
		1600 model 70A rated charge current
4.5.4.	Voltage	150Vdc max. PV open circuit voltage
4.5.5.	Protection	Over-temperature protection and power derating when temperature is high
		PV short circuit and PV reverse polarity protection
		PV reverse current protection
		Three high-current circuit breakers protect solar and charging system in lieu of fuses, installed on DIN rail behind control panel
4.6.	Programmability	Use the touchscreen controller for controlling the lights with virtual buttons and keyboards, providing:
		Individual and linked light control
		Manual on/off control
		Automatic on/off by ambient light, time of day, motion detection
		Manual and automatic dimming from 10% to 100% of full brightness
		Advanced day and date scheduling
		Control system configuration

4.6.1.	Main screen	Shows current date, time, and controller software version
		Clearly displays current and next (future) status of each light including on/off state, brightness, and on/off control mode: timer, sensor, or manual
		Displays quick-select button for switching all lights off if any are on, or all lights on from dusk to dawn at 50% brightness; quick-select button can be enabled or disabled (hidden) in settings
		Displays active alarms and warnings if any; alert symbol is green with no alerts and orange with active alerts; pressing the symbol accesses the Alarms and Warnings screen
		Displays buttons for accessing system information and settings
		Displays button for system login (password entry); password protection can be enabled or disabled in settings
4.6.2.	Light settings	Light settings screen clearly displays current light settings alongside buttons for changing and programming on/off functions
		Link or unlink lights for setting operation conditions for all lights at once, one at a time, or in any combination
		Manually switch lights on and off
		Manually control light brightness
		Create, view, enable, and disable programs for automatic on/off operation
		Save or cancel all changes to light settings
		Reset light settings to factory default
4.6.3.	Programs and scheduling	Three separate programs can be independently configured, activated, deactivated, and cleared
		Programs use internal real-time calendar and clock with DST control
		Independent on and off settings for each light or any combination of lights
		Set each program to run on specific calendar dates, or from a selected start date until a selected end date, or with no specified dates
		Set programs to run one or more days of the week in any combination; each day can be selected independently
		Set multiple programs to run simultaneously; failsafe protection keeps lights on when active programs conflict

4.6.4. Lights on options — Programs include user-selected triggers to switch lights on automatically, including:

Dusk	Lights on at dusk based on ambient light detected by system photocell sensor
Time of day	Lights on at user-specified time of day based on control system internal clock
Sunset	Lights on at sunset or user-selected number of minutes before sunset; variable sunset time of day is calculated using control system location
Delay after dusk	Lights on at user-selected number of minutes after dusk based on ambient light detected by system photocell sensor
Motion	Lights on when motion detected by user-installed motion sensor device

4.6.5. Lights off options — Programs include user-selected triggers to switch lights off automatically, including:

Dawn	Lights off at dawn based on ambient light detected by system photocell sensor
Time of day	Lights off at user-specified time of day based on control system internal clock
Delay after dusk	Lights off at user-selected number of hours after dusk based on ambient light detected by system photocell sensor

4.6.6. Information screen — Includes buttons for viewing:

Alarms and warnings

System time and date

System location

System IDs and versions

System photocell and temperature values

4.6.7. System settings

Devices	Provides access to user-configurable settings for auxiliary devices and touchscreen controller
	Provides access for user to allow/disallow remote control of lights (remote on/off control only)
Time and date	Provides access to set and change system time and date
	Includes automatic or manual Daylight Saving Time switching with built-in time zone selection

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	Location	Provides access to set or override system location by entering GPS coordinates or by choosing a city (North American cities only)
		When the control system is equipped with a compatible GPS modem, system location is automatically set but can be overridden by user settings
	Communications	Provides access modem settings
	Passwords	Provides access to enable/disable password protection
		When enabled, two levels of system control: basic controls including light settings, and full access to all system functions
	Low-voltage disconnect	Provides service access for managing low-voltage-disconnect threshold values

5. TRAILER

5.1.	Frame	
5.1.1.	Construction	All welded structural steel
5.1.2.	Tie-downs	One on each corner of frame
5.1.3.	Forklift pockets	Heavy duty all-welded forklift guides located at front of trailer
		Forking requires drawbar to be folded up
5.1.4.	Hoist rings	Three lifting rings allow for three-point crane hoisting
5.1.5.	Finish	Oven-baked, black powder-coat finish, applied prior to assembly to ensure durability and corrosion protection. Assemblies are bead-blasted and then run through a five-stage, high-pressure phosphate wash prior to finish coat.
5.2.	Fenders	Round, full wheel coverage, bolted to trailer frame, removable and replaceable
5.3.	Axle assembly	3500 lb (1588kg) capacity, 5 on 4.5" B.C. idler hub
5.4.	Springs	Double-eye leaf springs
5.5.	Tires	ST205/75D15 steel-belted trailer tires
5.6.	Drawbar	
5.6.1.	Construction	Hinged on bracket welded under trailer frame. Folds up for shipping and storage when needed. Secures up or down with a single locking pin.
5.6.2.	Material	3" (7.62cm) square steel tubing, 3/16" (0.476cm) wall
5.6.3.	Jack	Swivel jack with heavy-duty caster wheel, 2000 lb (907kg) capacity, welded-tube mount with retention pin

5.6.4.	Tow hitch	Standard 2-inch ball coupler tow-hitch, SAE Class 2, 3500 lb (1588kg) capacity. Bolts to drawbar, removable and replaceable.
		See "Options and Optional Equipment" for tow-hitch options.
5.6.5.	Tow chains	Two high-test proof coil chain assemblies with "latching" clevis slip hooks for towing. Chains attached to tongue with quick-link connectors.

Material diameter	0.406" (10.3mm)
Working load limit	5400 lb (2450kg)
Breaking force	16,200 lb (72kN)

5.7.	Stabilizer jacks	Four swivel jacks, each with spring-loaded lock pin and 2000 lb (907kg) capacity, mounted with snap-rings at corners of trailer frame
5.8.	Wiring	
5.8.1.	Description	Wiring to connect tow vehicle and trailer for trailer taillights is installed inside drawbar with pigtails and connectors at both ends; no crimping required
5.8.2.	Trailer plug	A sealed, molded, 4-square connector plugs into harness under trailer
5.8.3.	Tow-vehicle plug	Two-piece assembly with 4-flat molded connector on harness plugs into tow vehicle
		Meets SAE J1239
		See "Options and Optional Equipment" for tow-vehicle plug options
5.8.4.	Protection	All trailer wiring encased in UV protective sleeve, and attached with P-clamps riveted to trailer frame; no exposed wires
5.9.	Taillights	Two oval-shaped, sealed, LED, combination stop, turn and taillights integrated with fenders
5.10.	License plate	Lighted license plate holder is mounted to rear of trailer frame
5.11.	Reflectors	Red and white conspicuity tape in critical areas
5.12.	Tower assembly	
5.12.1.	Function	Lights are raised and lowered on a telescoping vertical tower
5.12.2.	Tower construction	Five sections, four square steel tubing and one round section, each with a successively smaller circumference, telescope inside the adjacent section below it. Each section is supported by a single cable that loops under it inside the next larger tower section.
		Nylon guide blocks keep the sections tight, eliminating the need for greasing the tower and preventing dirt from building up on the inner tower section. Dirt would cause performance problems and maintenance issues.
5.12.3.	Swivel base	A steel tubular weldment is bolted to the trailer frame. The bottom tower section rotates on a thrust bearing and washers inside the swivel base, reducing rotating friction.

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5.12.4.	Lights crossbar	Crossbar supports four light fixtures during operation and transport
5.12.5.	Finish	All tower sections are treated for corrosion resistance
5.12.6.	Height	At fully deployed height, 24.5 ft (7.97m) from ground to top of tower
		See "Options and Optional Equipment" for taller tower option
5.12.7.	Wiring	Electrical cable for lights enclosed in durable, coiled Nycoil® cable conduit attached to tower; extends with raised tower and returns fully to coil when tower is telescoped down

5.12.8.	Winch assembly	Function	Hand-operated winch raises and lowers tower
		Capacity	1500 lb (680kg)
		Brake	Safety friction-brake prevents tower from falling should operator lose grip on winch handle
		Cable	1/4" (6.35mm) diameter galvanized aircraft cable

5.12.9.	Rotation	Tower assembly rotates by hand, pivoting nearly 360 degrees; tower includes handle for gripping while rotating
5.12.10.	Tower lock	Single tension-lock secures tower rotation

6.   POWER SYSTEM

6.1.	Description	Lights powered by batteries, which are charged automatically with integrated solar charging system
		See "Options and Optional Equipment" for power system options
6.2.	Battery box	
6.2.1.	Function	Holds batteries, power shunts, and battery charger
6.2.2.	Construction	Riveted all-steel construction, cover is bolted in place
		Four vents with filters provide ventilation
		Covered inlet receptacle on back of battery box for AC charger
6.2.3.	Finish	Cabinet panels are coated with oven-baked, white powder-coat finish, applied prior to assembly to ensure durability and corrosion protection. Parts are run through a five-stage, high-pressure phosphate wash prior to application of the finish coat.
6.2.4.	Location	Centered between fenders, bolted to trailer frame

6.3.   Batteries

6.3.1. Description   4D AGM batteries, wired in parallel and series for a 24-volt system

                             800 model   Four batteries in one battery box

                             1600 model   Eight batteries in two battery boxes

6.3.2. Features   100% maintenance-free

                            Sealed and spill-proof

                            Faster recharge and greater freeze resistance than conventional batteries

6.3.3. Voltage   12Vdc each

6.3.4. Weight   120 lb (54.4kg) each

6.3.5. Capacity   800 model   400 Ah total

                                                   Approximate run time, batteries only (no solar charge):
                                                   Lights at 50% brightness, 25 hours
                                                   Lights at 100% brightness, 10 hours

                            1600 model   800 Ah total

                                                   Approximate run time, batteries only (no solar charge):
                                                   Lights at 50% brightness, 35 hours
                                                   Lights at 100% brightness, 13 hours

6.3.6. Voltage monitoring Power shunt calculates remaining power capacity to provide accurate battery-bank state
                            of charge (SoC)

                            Monitors power going into the battery bank from solar and AC charging, power drawn
                            from the battery bank by the lights, and battery temperature using a temperature sensor
                            inside the battery box

                            See "Options and Optional Equipment" for remote power monitoring options

6.3.7. Low-voltage   To protect batteries from full discharge, the LVD system automatically shuts down power
        disconnect (LVD)   when battery voltage drops to preset level, and re-engages power when battery charge
                            returns to optimum

                            Lights pulse on and off as a visible notification of LVD shutdown; duration of pulsing is
                            configurable

6.4.   Remote charger

6.4.1. Function   Plugs into a standard AC power source to manually recharge batteries

                            A single charger is configured to charge all batteries

6.4.2. Type   24-volt 3-stage smart battery charger

6.4.3.	Location	Inside battery box, mounted to side panel on opposite side of divider from batteries
		Covered inlet receptacle on back of battery box for connecting to power without accessing battery box interior
6.4.4.	Output capacity	50A
6.4.5.	Output voltage	26 to 33 Vdc
6.4.6.	Input voltage	108 to 132Vac, standard NEMA 5-15P three-prong plug
6.4.7.	Input current	14A max.
6.4.8.	Input receptacle	Standard NEMA 5-15R 15A receptacle with ground
6.4.9.	Cooling	Automatic fan cooling
6.4.10.	Protection	Reverse polarity protection, automotive style replaceable fuses
6.5.	Solar	
6.5.1.	Panels	High-efficiency monocrystalline photovoltaic modules with half-cut heterojunction bifacial cell technology

		800 model	Two fixed-position panels mounted to tilt-frame
		1600 model	Two fixed-position panels mounted to tilt-frame
			Two sliding panels mounted to tilt-frame below fixed-position panels

6.5.2.	Panel slides (1600 model only)	Panels slide in and out manually in rigid, low-friction channels
		Channel assemblies have no moving parts to wear or fail
		Mechanical stops ensure panels cannot extend out of channels
		Each panel is secured with dual locking pins when fully extended or contracted
6.5.3.	Tilt-frame	Solar array installed on tilt-frame above battery box/boxes. Entire solar array can be tilted using dual electric actuators, controlled with momentary switch on control panel. The angle range is 0 to 70 degrees up from horizontal.
		Optimal charging results from tilting solar array depending on the season; 0 degrees or horizontal with sun overhead during summer months, then angled up (latitude plus 15 degrees) with sun lower in the sky during winter months.

6.5.4.	Power output	800 model	800W
		1600 model	1600W

6.5.5.	Current	800 model	9.5A max. system current
			10.3@24V open short-circuit current
		1600 model	19A max. system current
			20.6@24V open short-circuit current
6.5.6.	Voltage	84.0Vdc max. system voltage	
		97.6Vdc open short-circuit voltage	
6.5.7.	Efficiency	21.6%	
6.5.8.	Regulation	Solar power input regulated by control system	
6.5.9.	Security	Solar panels attached to frame with security screws	

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7. DIMENSIONS & WEIGHT

7.1. Dimensions

inches
(cm)

Storage position

107
(272)

85
(215)

129
(327)

Travel position

107
(272)

85
(215)

180
(457)

Deployed

Tower

30 ft.

341
(867)

24 ft.

294
(747)

70°
max.

164
(417)

166
(421)
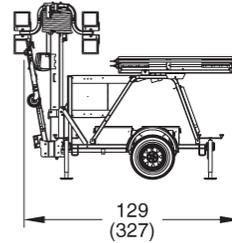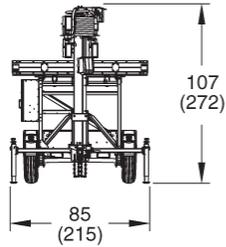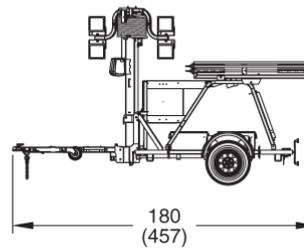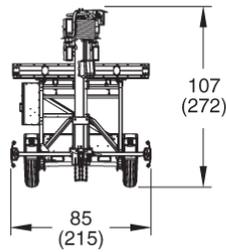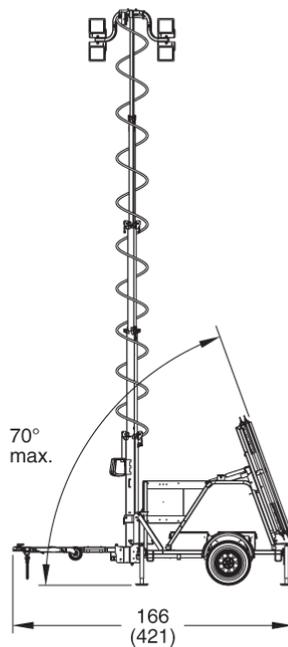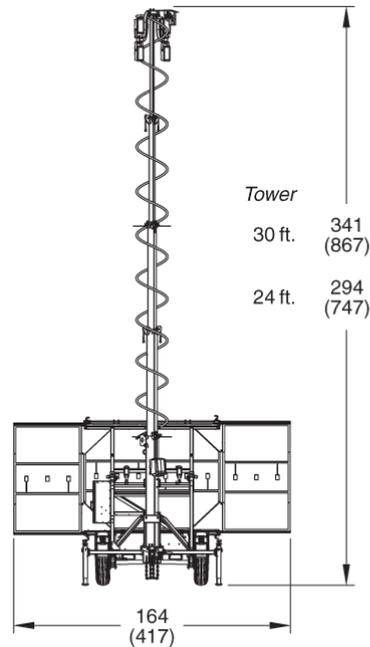
7.2. Weight

800 model	Approx. 2100 lbs. (953 kg)	
1600 model	Approx. 2900 lbs. (1315 kg)	

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8. OPTIONS AND OPTIONAL EQUIPMENT

8.1. Transport options

8.1.1. Tow hitch — Lunette ring for pintle hook, 3" ID x 1 5/8" cross-section replaces standard ball hitch

8.1.2. Tow-vehicle plug — Many types of plugs available, prewired at the factory; contact factory for details

8.1.3. Spare tire — Spare tire/wheel and carrier installed on solar support frame

8.1.4. Wheel chocks — Two rubber chocks with carry basket installed on solar support frame

8.2. Functional options

8.2.1. Tower — 30 ft (9.1m) tower replaces standard tower

At fully deployed height, 28 ft 5 in (8.67m) from ground to top of tower

Power-operated winch replaces manual winch for raising and lowering tower

Adds momentary switch to control panel for up/down operation; Includes manual winch handle for use in the event of system power failure

8.2.2. Flashing beacon — Flashing blue presence light at top of tower increases awareness of light tower

Can be powered on or off with light tower controller

8.3. Power system

8.3.1. Hybrid power — Adds backup power to 1600 model by replacing second battery box with diesel genset

Diesel engine automatically charges batteries when they reach a set state of charge level, extending run time and autonomous operation

Eco-friendly features include sound-attenuated engine enclosure and exhaust, and integrated fluid containment

Includes Deluxe power management package described below

Specifications for this option are provided in a separate document

8.3.2.	Deluxe power management	Provides real-time power performance information for monitoring, managing, and optimizing the power system
		Cloud-based service provides remote power management online via internet browser, 5-year cellular service plan included
		Web-based portal provides remote on/off control of lights with real-time feedback, and remote power management via internet and cellular connection
		Mobile app provides enhanced local power management via Bluetooth when within range of light tower
		Interactive touchscreen interface on control panel allows local power management (replaces standard battery monitor)
		View live and historical data
		View actual GPS location of light tower and real-time weather conditions
		Set alerts and alarms to portal and user email accounts
8.3.3.	Basic power management	Provides snapshot view of the same power data and performance history as the Deluxe package
		Cloud-based service provides remote power management online via internet browser, 5-year cellular service plan included
		System connects briefly and uploads data at 15-minute intervals (live data not available)
		Mobile app provides remote power management within Bluetooth range of light tower
		View recent and historical data (live data not available)
		View approximate light tower location based on GPS of nearest cell towers
8.4.	**Asset tracker**	Wanco Asset Tracker provides location tracking information and more, viewed remotely using Wanco Fleet Manager
		Includes Wanco Fleet Manager, a web-based service for managing Wanco equipment
		View GPS location (longitude and latitude) and geofencing on interactive Google map
		View equipment battery voltage, including voltage history
		View location history—hourly updates, up to 50 locations
		Get email or text notifications for low voltage and geofence violations

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