WATTOWA

SOLAR POWER SUPPLY

WATTOWA is a self-sufficient solar power supply for off-grid applications, providing dependable energy for compatible lighting, charging, and other approved equipment. System sizing is tailored to site conditions and required power output.

COMPATIBILITY NOTICE

Photinus provides Wattowa-compatible fixtures and is not responsible for functionality with non-approved fixtures. Testing for non-approved fixtures is available — subject to limitations and conditions. Consult the factory for testing.

SOLAR MODULE

Solar Module	Monocrystalline silicon cells, processed by Photinus
Efficiency	18.9%
Performance P_{mpp}	Wattowa 195: 480 Wp* / 12 Solar Modules Wattowa 372: 840 Wp* / 12 Solar Modules Wattowa 550: 1440 Wp* / 12 Solar Modules

*Wp = Watt Peak: maximum power output under standard conditions. Modules also charge in cloudy conditions.

GENERAL

Output Connection	2m open-ended cable exiting the bottom or the back (low). An inline splice box, supplied by others, is required to connect third-party fixtures. The product ends at the free end of the cable.
Material	Steel pole and aluminum parts
Impact Resistance	IK06
Finish	Galvanized and powder coat
Weight	Wattowa 195: 143.3 lb [65 kg] Wattowa 372: 286.6 lb [130 kg] Wattowa 550: 330.7 lb [150 kg]
Wind Load	115 mph (185 km/h). Higher wind loads only upon request
Salt Spray Test	ISO 9227:2012
Warranty	5 Years
Certification and Listing	ETL Listing pending — Intertek

BATTERY

Battery	Wattowa 195: LiFePO4 / 538 Wh (12.8V 42Ah) or 2 x 42 Ah / 1075 Wh Wattowa 372: 2 x 42 Ah / 1075 Wh Wattowa 550: 2 x 42 Ah / 1075 Wh
Operating Temperature	-4°F to 140°F [-20°C to 60°C]
Max Charge/Discharge Current	15A
Standard Charge/Discharge Current	9A
Charging Voltage	14.6V
Battery Life	up to 10 years
Protection Class	IPX8

Battery is placed underground with both mounting types. Refer to page 4.

CHARGE REGULATOR

Charging Current	10A
Protection Class	IP67
MPPT Charging	Yes
Max Tracking Efficiency	99.9
Operating Temperature	-31°F to 140°F [-35°C to 60°C]
Output Voltage	20–30V
Output Power	1–60 Watts Constant Current
Own Consumption	5mA
System Voltage	12V DC

ORDER CODE

MODEL	TYPE	OUTPUT	TIME MANAGEMENT	FIXTURE
WATTOWA	**195** 160 Wp – 640 Wp available range **372** 320 Wp – 1280 Wp available range **550** 480 Wp – 1920 Wp available range	**OPx** Output to be determined by Photinus according to project requirements x = output	**V0** No Time Management Options with Photinus approved fixtures: **V5** Standard Setting **V3** Continuous lighting 100% **V3M** Light-on-Demand, requires **PIR/PILG option** **V4** Night-time reduction to 40% For other time management options, consult factory.	**N** None **AGN** Agnes* **EVA** Eva* **EVAW** Eva Wall* **EVAWUD** Eva Wall Up/Down* **OWE** Owen* **PET** Peter* **EXT** Third Party Fixture — must be constant-current, max 60W *Refer to the corresponding specsheet on the Photinus website for fixture configuration and quote request.

WIND LOAD	MOUNTING	FINISH	OPTIONS	LOCATION
W115 115 mph **Wx** Specify Wind Load* x = wind load in mph *Consult factory.	**PF** Pipe Foundation **ABO** Anchor Base with Opening	**D** Dark	**00** None **V** Vandal resistant configuration. Solar panels installed above 10 ft to minimize risk of tampering.* **PIR** Sensor **PILG** All-in-one E-safe Hub Sensor **MGP** Marine Grade Primer *Final height and panel configuration to be determined by factory based on project requirements.	**ADDRESS** Provide Full Address of Installation

SPECIFY YOUR CODE — example values shown in grey

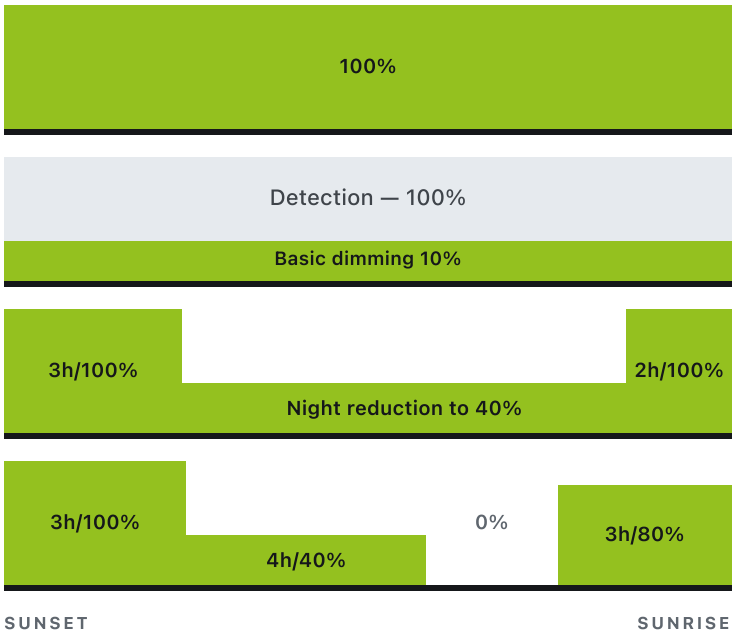
WATTOWA	–		–		–		–		–		–		–		–	
MODEL		TYPE 195		OUTPUT OP		TIME V0		FIXTURE N		WIND W115		MOUNT PF		FINISH D		OPTIONS 00

LOCATION

ADDRESS STREET _____ CITY _____ STATE _____ ZIP _____

ENERGY AND TIME MANAGEMENT

WITH PHOTINUS APPROVED FIXTURES



V3 — Continuous lighting at 100% from sunset to sunrise.

V3M — Light-on-Demand functionality, with automatic reduction to 10% brightness and full activation at 100% when triggered. Requires **PIR/PILG** sensor.

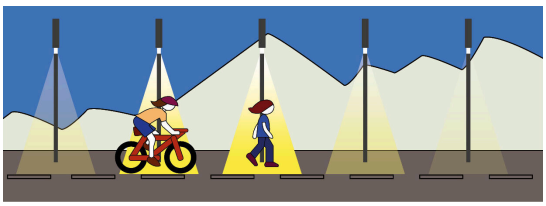
V4 — Night-time reduction to 40%, with 100% for the first three and last two hours.

V5 STANDARD — Standard factory setting. Stepped profile ending with 80% before sunrise.

OPTIONS

PIR / PILG Sensor / all in one E-safe Hub Sensor

Each luminaire can be equipped with a PIR sensor for stand-alone or networked light-on-demand control. One GPS-equipped luminaire enables real-time communication across the system, allowing fixtures to adjust output based on activity for improved efficiency, reduced light pollution, and dependable illumination when needed.



V Vandal Resistant Configuration — solar panels installed above 10 ft to minimize risk of tampering. Final height and panel configuration to be determined by factory based on project requirements.

MGP Marine Grade Primer — additional corrosion protection for coastal and high-salt environments.

COMPATIBLE FIXTURES

AGN	Agnes
EVA	Eva
EVAW	Eva Wall
EVAWUD	Eva Wall Up/Down
OWE	Owen
PET	Peter
EXT	Third Party Fixture — must be constant-current, max 60W

Refer to the corresponding specsheet on the Photinus website for fixture configuration and quote request.

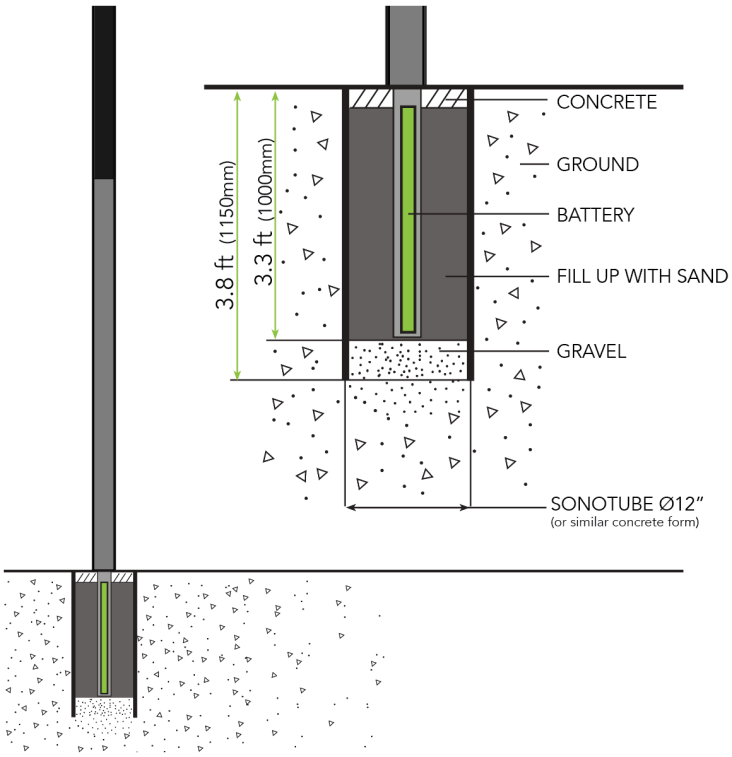
FINISH

D Sparkling Iron Effect Dark

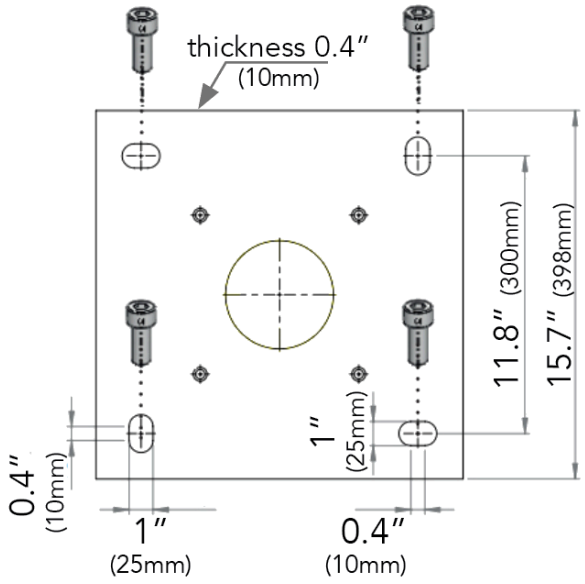
Tiger 29/70787
Powder Coat

MOUNTING

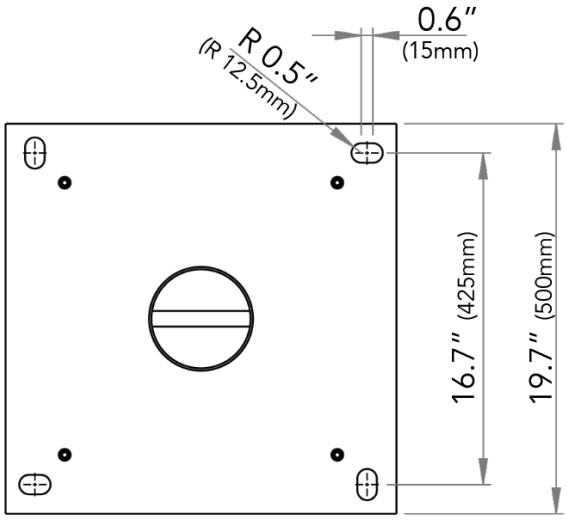
PF Pipe Foundation — battery placed underground



AB0 Anchor Base with Opening — base plate detail, battery placed underground



Wattowa 195 Baseplate

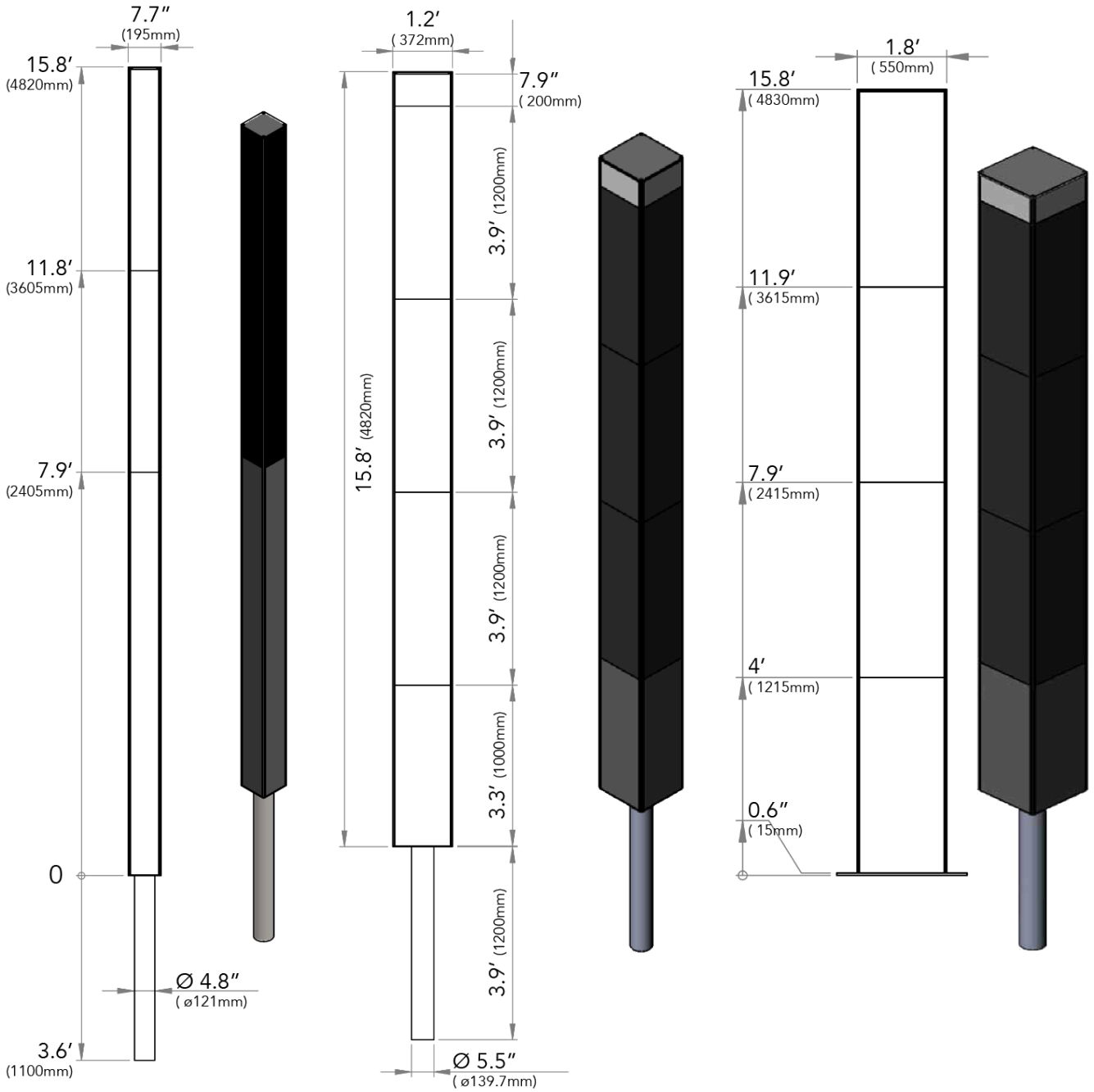


Wattowa 372 Baseplate

For informational purposes only. The final size of the base plate is contingent upon the system size. A larger system will require a larger base plate; a smaller system will require a smaller base plate.

STANDARD DIMENSIONS

DATUM 0 AT GRADE



Wattowa 195 **Wattowa 372** **Wattowa 550**

For information purposes only. The number of solar panels needed will be determined by the manufacturer to suit the solar intake necessary for each project. Final size dependent on install location and desired lumen output. Less direct solar intake may require larger pole with more solar panels. Custom heights available. Drawings provided upon request.