



# VERTAIC BOLLARD

**Vertical Bollard Power Station**  
[Fixture Webpage](#)

Catalog Number

Notes

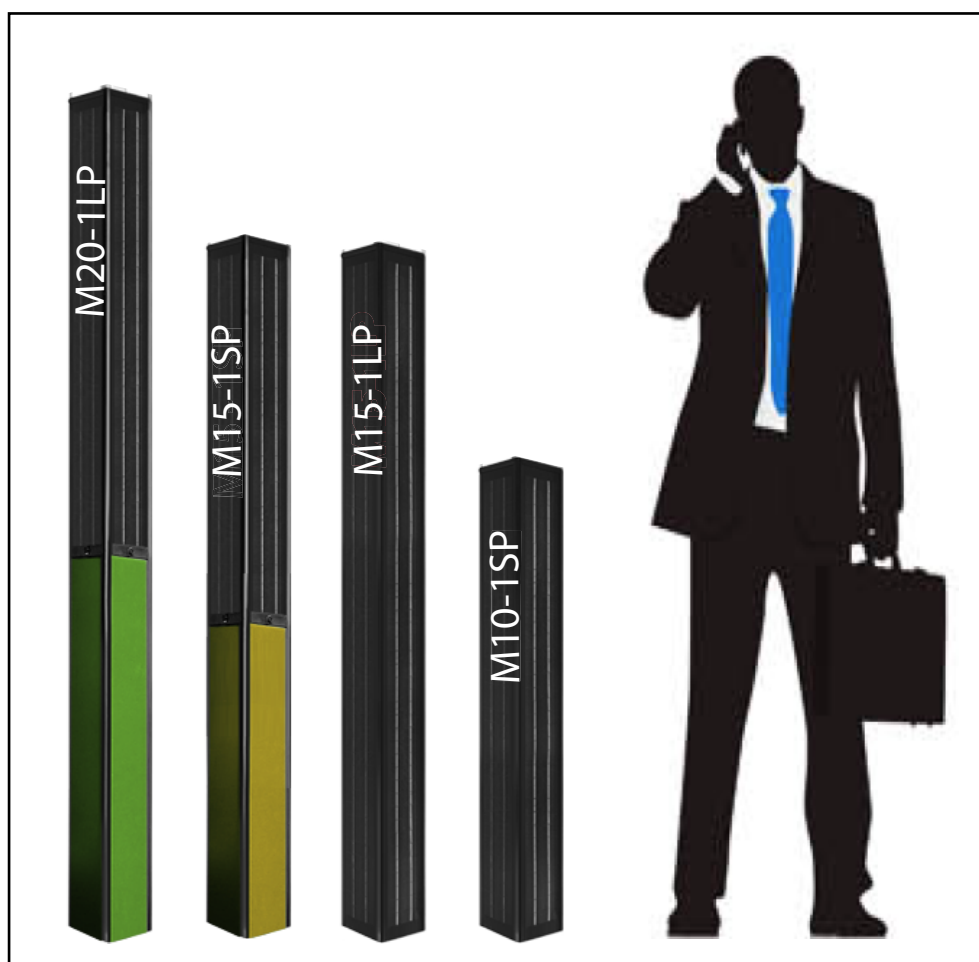
Type

## Introduction

The vERTAIC Solar powered bollard powerstation series is the most powerful solar bollard on the planet, It integrates unique solar panels vertically to capture the sun in all directions, Highly vandal resistant with glassless solar panel technology providing power without having to run any underground cabling. Just simply secure it to the ground and your completed.

For lighting the 1 meter bollard full night operation middle of winter delivers over an unprecedented 500 lumens and over 1000 lumens running half night operation. Reduce your projects up front cost through zero underground reticulation works and wider spacings through the vSHINE Bollard lighting head optics.

For power requirements the systems can power around 20 watts for 12 hours or 6 watts for 24 hours ( for larger power requirements see Vertaic column power stations.



*Valen Energy reserves the right to make changes at any time in order to supply the best product possible.*



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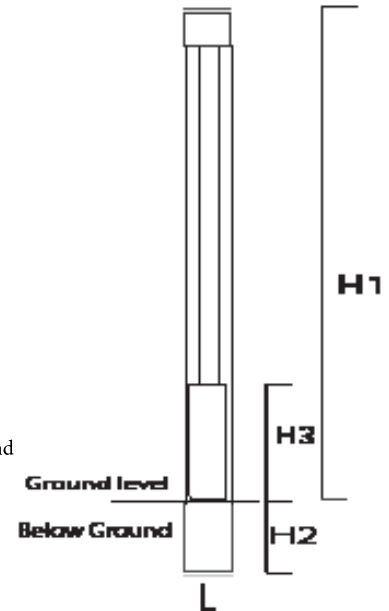
## Dimensions

Model No.	L		W		H1		H2		H3		Weight	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(Kg)
M10-1SP-DB	6.89	175	6.89	175	34.5	900	18.5	470	0	0	73.0	33.5
M15-1SP-DB	6.89	175	6.89	175	59.0	1500	18.5	470	25.59	650	86.0	39.8
M15-1LP-DB	6.89	175	6.89	175	67.0	1700	18.5	470	0	0	93.1	42.2
M20-1LP-DB	6.89	175	6.89	175	86.5	2200	18.5	470	20.57	520	113.9	51.7

**Notes:**

If H3 = 0 this means there is no infill panel and the solar panel will be at ground level please be sure you bury either to the bottom of the infill panel or the bottom of the solar panel at ground level

H1= LED mounting height and may vary slightly



## Ordering Information

vPS	Pole Height*	Mounting	Solar Panels	Extreme Batteries	Operation Profile	Finish	Infill Panel Options	Height Options
VPS	<b>M10</b> = 1 meters <b>M15</b> = 1.5 meters <b>M20</b> = 2 meters	<b>AB</b> = anchor base <b>DB</b> = direct bury	<b>1LP</b> = 1 large panel <b>1SP</b> = 1 small panel	<b>1LB</b> = 1 large battery <b>2LB</b> = 2 large batteries <b>3LB</b> = 1 large batteries <b>4LB</b> = 1 large batteries <b>1SB</b> = 1 small battery <b>2SB</b> = 2 small batteries <b>3SB</b> = 1 small batteries <b>4SB</b> = 1 small batteries	<b>FN</b> = full night <b>9-1</b> 9hr night <b>9-2</b> <b>9-3</b> <b>9-4</b> 6hr night <b>6-1</b> <b>6-2</b> <b>6-3</b> <b>6-4</b> 3hr night <b>3-1</b> <b>3-2</b> <b>3-3</b> <b>3-4</b>	<b>BJA</b> = Black Anodise <b>NLA</b> = Natural Anodise <b>BZA</b> = Bronze Anodise	<b>MB</b> = Metallic Black (standard) <b>MS</b> = Metallic Silver <b>MW</b> = Metallic White <b>MI</b> = Mirror <b>WG</b> = Wood grain <b>SB</b> = Standard Blue <b>SG</b> = Standard Green <b>SY</b> = Standard yellow <b>SO</b> = Standard Orange <b>SR</b> = Standard Red	<b>300</b> = 300 mm <b>600</b> = 600 mm

\* Pole Height - All sizes in model no. are nominal sizes, see above table for lamp heights

Example: VPS-M30-AB-1LP-1LB-FN-BKA

## Notes

- 12 Volt DC solar column lighting system.
- Coating- Architectural 2 step anodising for longevity in full sunlight
- Infill panels can be substituted with local artwork or advertising- Ask your local distributor for details
- Large / Small panel refers to panel size which is information not available. All systems are designed to the minimum Peak sunlight hour for that region and has solar panels to suit those conditions.
- Pole heights are Nominal. Actual heights are listed below on this data sheet under the table "dimensions".

- 6 Large / Small Battery refers to the battery sizes which is information not available. All systems have a back up of 4-5 days based on the load selected.
  - 7 Other body colors available upon request as powdercoat options.
- \* Pole Height - All sizes in model no. are nominal sizes, see below table for actual height  
 \*\* Height Options - total maximum height of Anchor base pole is 8 meters and 7.1 meters for the direct bury option  
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## Performance Data

### Lumen and Wattage Output per Location

Lumen values are from photometric tests performed in accordance with IESNA LM-79-80. Data is considered to be representative of the configurations shown, with the tolerances allowed by Lighting Facts. Actual performance may vary as a result of end-user environment and application.

Height	Model No.	Run Time	15 Degree Latitude		30 Degree Latitude		45 Degree Latitude	
			Wattage	Lumens	Wattage	Lumens	Wattage	Lumens
1	vPS-M10-1SP	Full night	8	920	6.5	747.5	4	460
1	vPS-M10-1SP	Half Night	18.5	2127.5	15	1725	9.5	1092.5
1.5	vPS-M15-1SP	Full night	8	920	6.5	747.5	4	460
1.5	vPS-M15-1LP	Full night	19	2185	15.5	1782.5	10	1150
1.5	vPS-M15-1SP	Half Night	18.5	2127.5	15	1725	9.5	1092.5
1.5	vPS-M15-1LP	Half Night	45	5175	36.5	4197.5	23.5	2702.5
2	vPS-M20-1LP	Full night	19	2185	15.5	1782.5	10	1150
2	vPS-M20-1LP	Half Night	45	5175	36.5	4197.5	23.5	2702.5

## Features & Characteristics

**APPLICATIONS** - The vERTAIC Column is ideal for commercial, industrial and residential site lighting, Wifi hotspots, Communications, pumps, Cellular device and laptop charging.

**CONSTRUCTION** - 6000 series T6 Aluminium extrusion. Our unique construction allows for passive cooling and natural cleaning of the solar panels and internal batteries, ensuring thermal control with reliable operation at 45-50°C high ambient conditions. Stainless steel fasteners with hidden access hatch to electrical components and battery.

**SOLAR PANELS** - Vertaic utilises cutting edge glassless encapsulant for solar panels that will never shatter and are as vandal resistant as possible all whilst increasing panel efficiency and sunlight harvest when compared to glass type solar panels.

**BATTERIES** - Our extreme temperature batteries have been manufactured with a high temperature electrolyte, increased battery plate width and adjusted electrolyte ratio allowing for an increased temperature range of -39 to +68 degrees Celcius

**ELECTRICAL** - All electronics are located inside the pole for maintenance and accessibility. MPPT solar charge control with 98% efficiency, DC double pole circuit breakers, wago quick connect terminal blocks with room for any type of electronics for switching .

**MOUNTING** - Anchor base or direct bury options available. All vertaic product comes complete fully assembled ready to install onto your chosen mounting option.

**FINISH** - Architectural anodised 2 step process in natural, Black and Dark bronze. Standard colors is Natural anodise. RAL and custom color matches are available as optional.

**WARRANTY** - Five year limited warranty on Electronics and Batteries. Ten year warranty on solar panels, mold and pole assembly.

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