

Specifications & Key Features:

Housing:

Die-cast/profiled aluminium and steel are used to produce an elegant and unobtrusive low profile design.

Certifications:

UKCA, CE, CB, SAA

Finish:

Powder coated Black/Red

Driver:

- 400 to 1500W 3ch. DALI2/DMX driver
- Integral or remote operation
- IP66 rated

Warranty & Lifetime:

5 years standard warranty
60,000 hours L80B10 25°C

Wind Area (0° elevation):

6 module: 0.149m²
4 module: 0.130m²
2 module: 0.107m²



Challenger 1:
1500W 6 Module
Version

Challenger 1
1000W 4 Module Version

Challenger 1
500W 2 Module
Version

Product Applications:

- Sports Grounds
- Rail Depots
- Sea Ports
- Amenity
- Distribution Centres
- Airports

Challenger 1 Product Overview:

The Challenger 1 LED by Abacus Lighting is a cutting-edge floodlight that combines exceptional performance with a sleek, modern design and low cost of ownership. Featuring a flat glass, double asymmetric design, it provides precise and efficient illumination while minimising light spill. Available in 2, 4, and 6 module variants ranging from 400W to 1500W, the Challenger 1 LED is a versatile solution suitable for a wide range of applications. Whether used for sports facilities, industrial sites, large open spaces, or area lighting, it delivers powerful and reliable illumination tailored to specific project needs.

Built for durability, the Challenger 1 LED is IP66 rated, ensuring protection against dust and water ingress, making it a robust choice for even the harshest environments. With Abacus-designed medium and narrow beam optics, it provides excellent coverage and efficiency, enhancing visibility and safety.

The floodlight offers integral or remote driver options, allowing for flexible installation. Finished in a durable powder coating, it not only performs exceptionally but also maintains a professional modern aesthetic. Whether lighting up sports venues, industrial complexes or large public spaces, the Challenger 1 LED sets the standard for high-performance floodlighting.

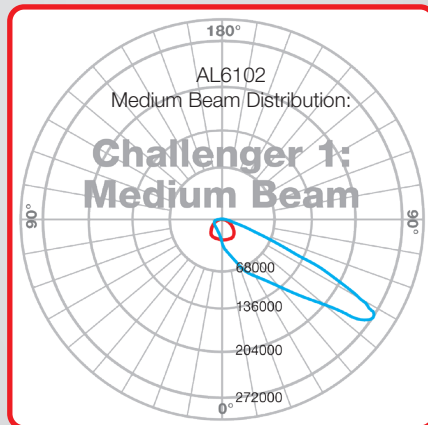
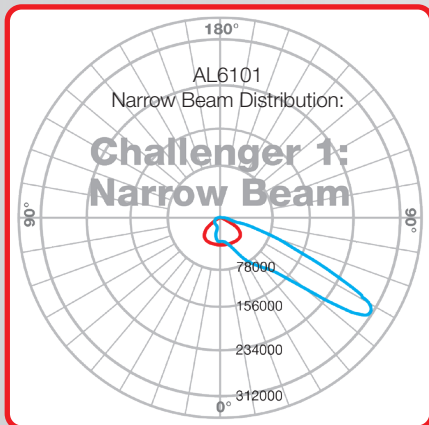


Technical Specifications:

Challenger 1 LED Specification:

Power (W)	400W	500W	800W	1000W	1200W	1500W
Input Voltage	AC 200-440V @50/60Hz (Single or 3 phase L1/L2/PE)					
Power Factor	≥0.95					
Luminous Flux (Net lm)	63,665lm	63,665lm	136,000lm	136,000lm	204,000lm	204,000lm
L90 B10 @ 25deg	> 120,000					
Efficiency (lm/W)	> 135lm/W					
Electrical Class	Class I					
Surge Protection	20kV					
CCT (°K)	5000K (3000K to 5700K Available)					
CRI (Ra)	Ra70 (80/90 optional)					
Weight (kg)	17.2kg	17.2kg	19.5kg	19.5kg	25.8kg	25.8kg
Wind Area (m2)	0.107m ²	0.107m ²	0.130m ²	0.130m ²	0.149m ²	0.149m ²
IP Rating	IP66					
Operating Temperature (°C)	-40°C - +40°C (50°C available)					

Photometry Output:



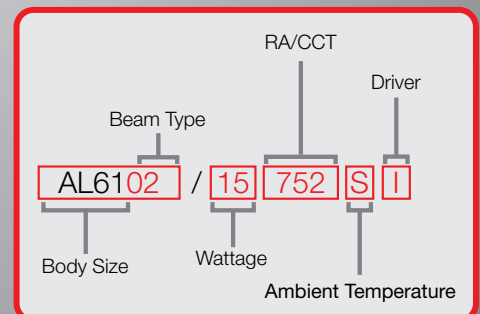
Scan Or Click Here To Download
The Challenger 1 Photometry
Data:



Challenger 1 LED - Product Code Selector

Body Size	Beam Type	Wattage	RA/CCT	Ambient Temp	Driver
AL61 = 6 modules	01 = Narrow	15 = 1500W (6 module)	752 = (Ra70/5200K)	S = Standard (40°C)	R = Remote
AL62 = 4 modules	02 = Medium	12 = 1200W (6 module)	852 = (Ra80/5200K)	H = High (50°C with 08 800W Option)	I = Integral
AL63 = 2 modules	04 = 10°	10 = 1000W (4 module)			
	05 = 20°	08 = 800W (4 module, 50°C)			
	06 = 30°	05 = 500W (2 module)			
	07 = 60°	04 = 400W (2 module)			

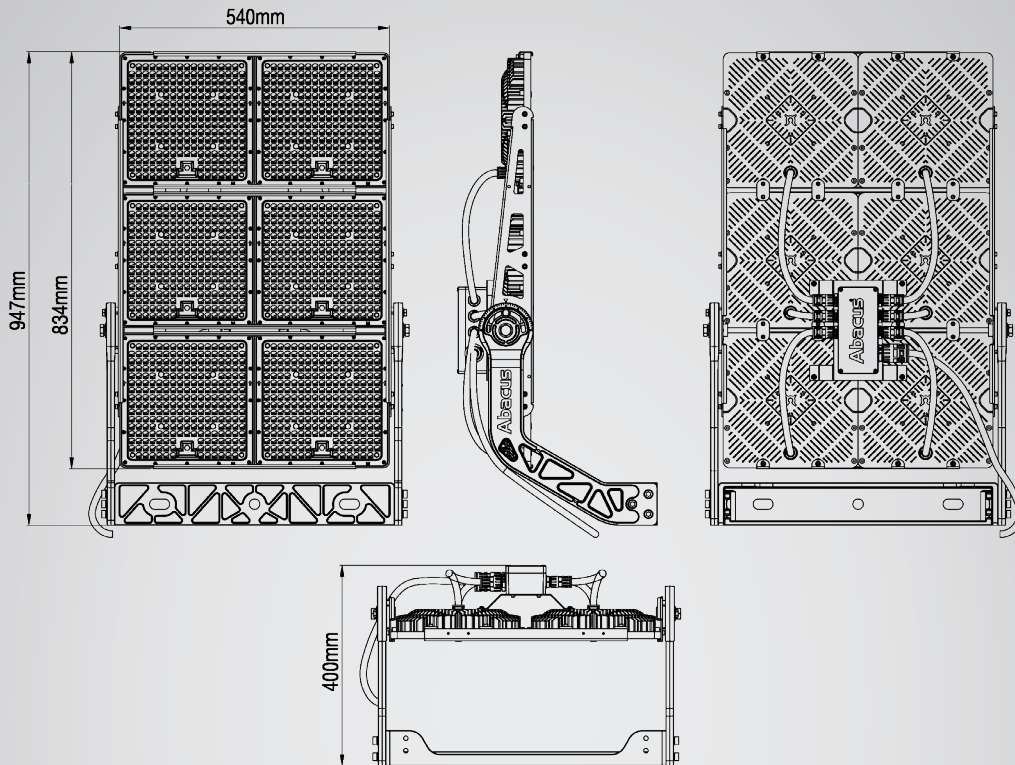
Product Selection Example:



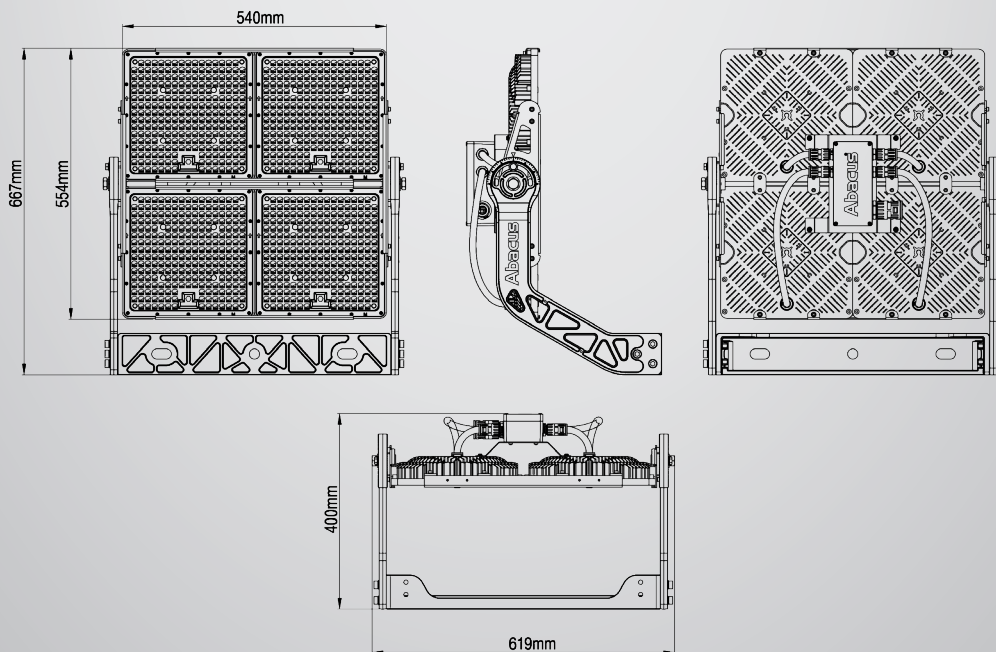
*Non-standard options may be subject to MOQs or longer lead times.

Challenger 1 Dimensions:

Challenger 1: 6 Module Version 1500W

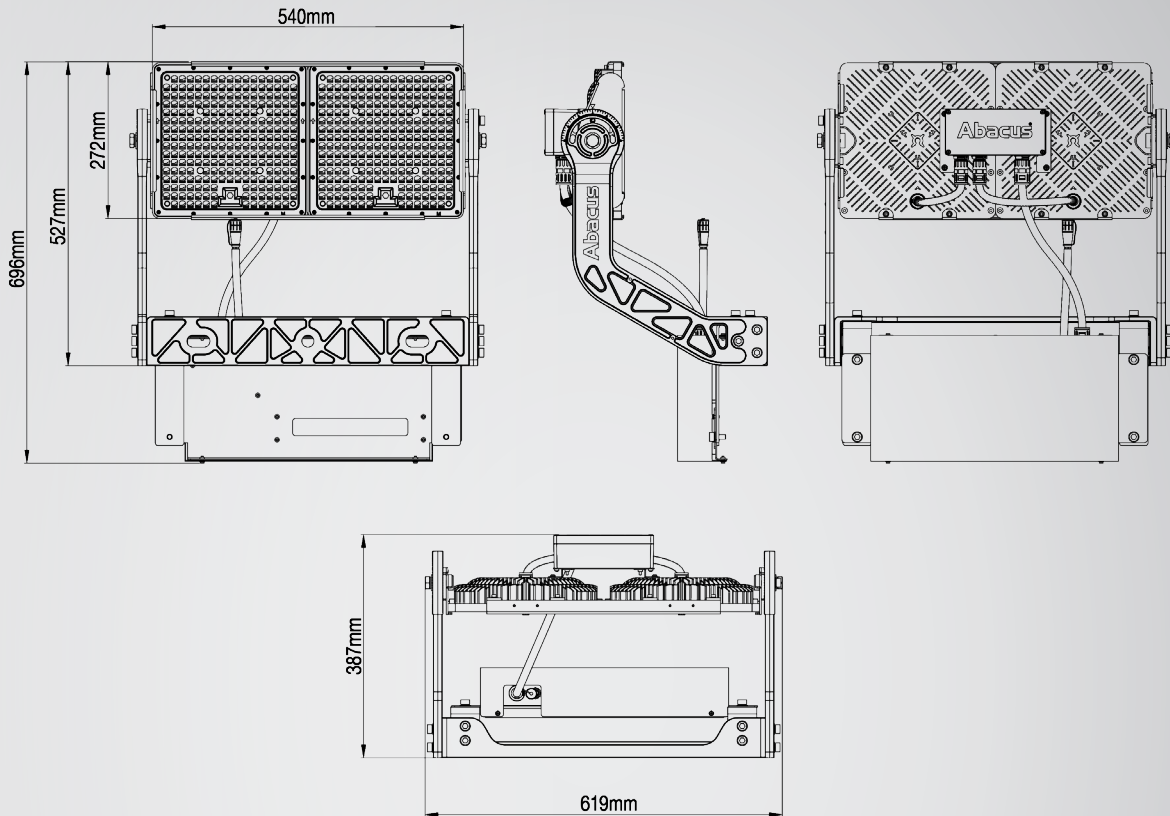


Challenger 1: 4 Module Version 1000W



Challenger 1 Dimensions:

Challenger 1: 2 Module Version 500W



Challenger 1 - Typical Column Suitability

- 1.) Static Masts
- 2.) Base Hinge Masts
- 3.) Telescopic Hydraulic and Pneumatic Masts

*The Abacus Lighting masts mentioned above serve as examples for typical installations, but we are not restricted to these options. Abacus Lighting provides a comprehensive range of columns and masts that can accommodate virtually any new or retrofit lighting project.

**Raise and Lower



CLICK or SCAN



For More Information