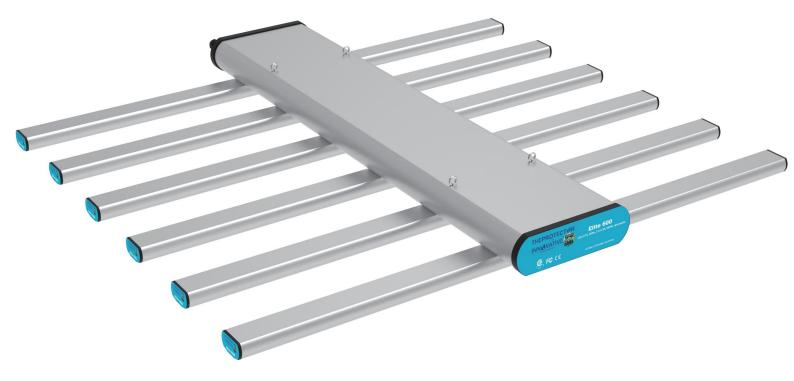
THEPROTECTOR



Elite 600 LED Growing Light



User Manual





Elite 645W LED Growing Light



Full Spectrum

- --380nm-780nm.
- --Improve active ingredient contents

1650 μmols⁻¹

- --Over 2.7μmol/J at 600w
- --Saving more energy while produce more

Wet location / IP65

- -- Make planting easier.
- -- Easily sterilized.

>97% light transmission

--With silicone conformal coating.

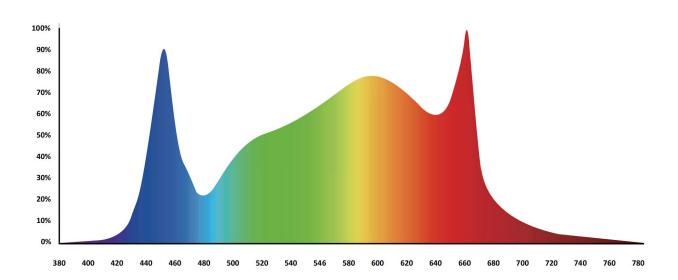
Suitable for GMP & GACP facility

- --Sealed shut.
- --No fans.

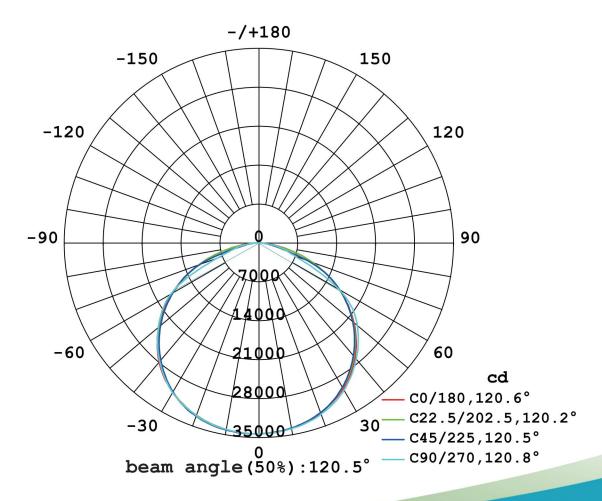




SPECTRUM



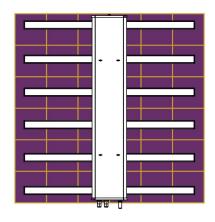
LUX DISTRIBUTION







PPFD MAP



Map Size: 1m x 1m

≥1000	800-1000	700-800	600-700	450-600	300-450	250-300
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1399	1443	1346	1346	1443	1399
1439	1554	1661	1661	1554	1439
1381	1559	1623	1623	1559	1381
1381	1559	1623	1623	1559	1381
1439	1554	1661	1661	1554	1439
1399	1443	1346	1346	1443	1399

PPFD MAP at 0.5ft

Clearance	0.5	ft
Qty	1	U
Average PPFD	1489	μmol/m2/s
Max PPFD	1661	μmol/m2/s
Min PPFD	1346	μmol/m2/s
Min/Average	90.4	%
Watts	600	W

590	786	880	880	786	590
815	1041	1117	1117	1041	815
868	1113	1206	1206	1113	868
868	1113	1206	1206	1113	868
815	1041	1117	1117	1041	815
590	786	880	880	786	590

PPFD MAP at 1ft

Clearance	1	ft
Qty	1	U
Average PPFD	935	μmol/m2/s
Max PPFD	1206	μmol/m2/s
Min PPFD	590	μmol/m2/s
Min/Average	63.1	%
Watts	600	W





425	530	600	600	530	425
590	750	880	880	750	590
685	885	950	950	885	685
685	885	950	950	885	685
590	750	880	880	750	590
425	530	600	600	530	425

PPFD MAP at 1.5ft

Clearance	1.5	ft
Qty	1	U
Average PPFD	699	μmol/m2/s
Max PPFD	950	μmol/m2/s
Min PPFD	425	μmol/m2/s
Min/Average	60.8	%
Watts	600	W

486	508	550	550	508	486
518	641	699	699	641	518
539	659	749	749	659	539
539	659	749	749	659	539
518	641	699	699	641	518
486	508	550	550	508	486

PPFD MAP at 2.0ft

2.0	ft
1	U
594	μmol/m2/s
749	μmol/m2/s
486	μmol/m2/s
81.8	%
600	W
	1 594 749 486



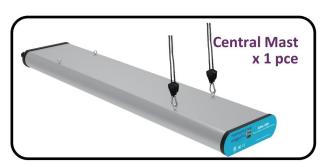
	Specifications Specification Specifica				
Туре	Elite 600				
Amp Draw	2.7A				
Wattage	600W				
Power factor	>0.9				
PPF	1,650 μmol/s				
Efficacy	2.7 μmol/J				
вти	2100 BTU/h				
Driver Brand	Moso				
Light source	Osram 660nm + Samsung 301b				
Dimming	Daisy Chain Digital signal(RS485): 0-100%; Analog signal (0-10Vdc): 35%-100%				
Material	6063 Aluminum				
Thermal Management	Passive Cooling				
Mounting Height	≥ 6" (15.2cm) Above Plant Canopy				
Warranty	5 years				
Certifications	CE /RoHS standards				
IP rating	IP 65				
Ambient operating temperature	14 ° F ~ 104°F (-10°C ~ 40 °C)				
Lifespan	L90: >54,000 hrs				
Fixture Dimension Net Weight	L990 x W990 x H110mm xxx kg				
Packing Dimension Gross Weight					



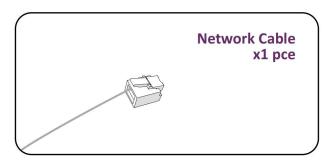


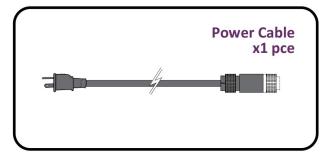
In the Box



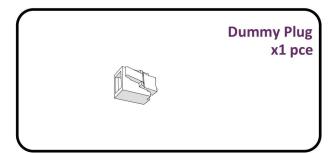






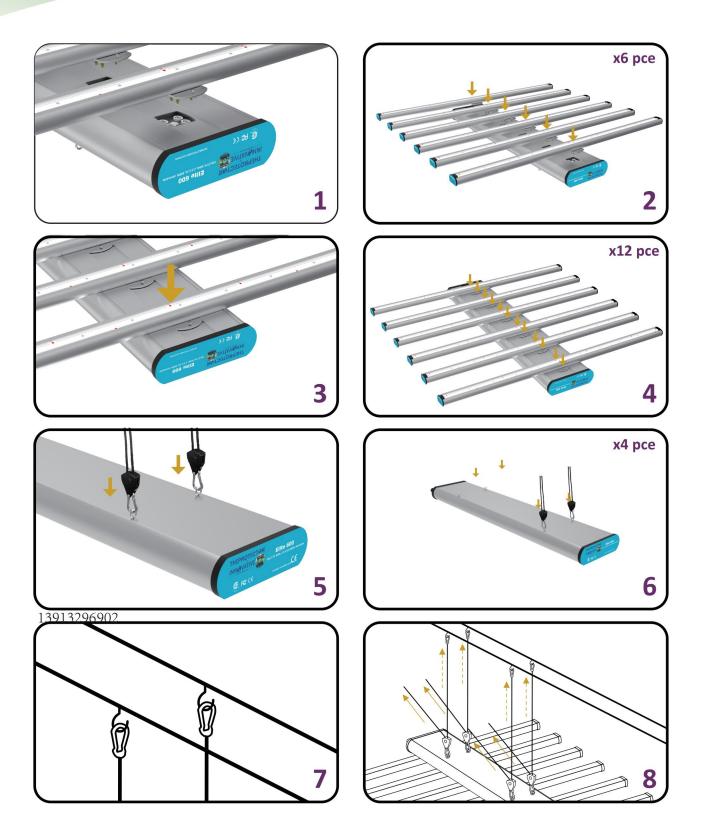








Installation Instructions



When handling your Nova Fixture. The LED array should NOT come in contact with sharp objects. DO NOT touch diodes or apply direct force to the diodes as this can/will cause permanent damage.

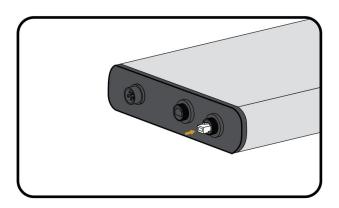


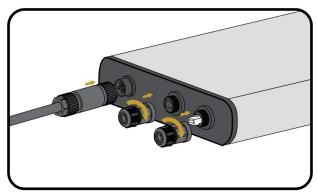


Installation Precautions

- "THIS PRODUCT MUST BE INSTALLED BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED, IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE".
- "KEEP THESE INSTALLATION INSTRUCTIONS".
- For lighting equipment with cords or wiring harnesses, instructions shall include information to quide the installation such that cords:
 - 1) Are not concealed or extended through a wall, floor, ceiling, or other parts of the building structure,
 - 2) Are not located above a suspended ceiling or dropped ceiling,
 - 3) Are not permanently affixed to the building structure,
 - 4) Are routed so that they are not subject to strain and are protected from physical damage,
 - 5) Are visible over their entire length, and
 - 6) Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

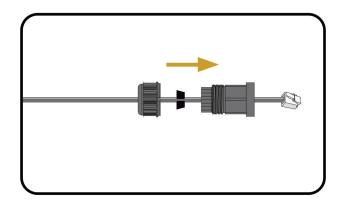
Non-controlled

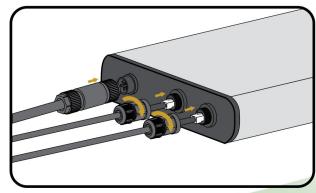




Non-controlled fixtures simply operate at 100% when inserting the dummy plug into the IN terminal.

Dimmable



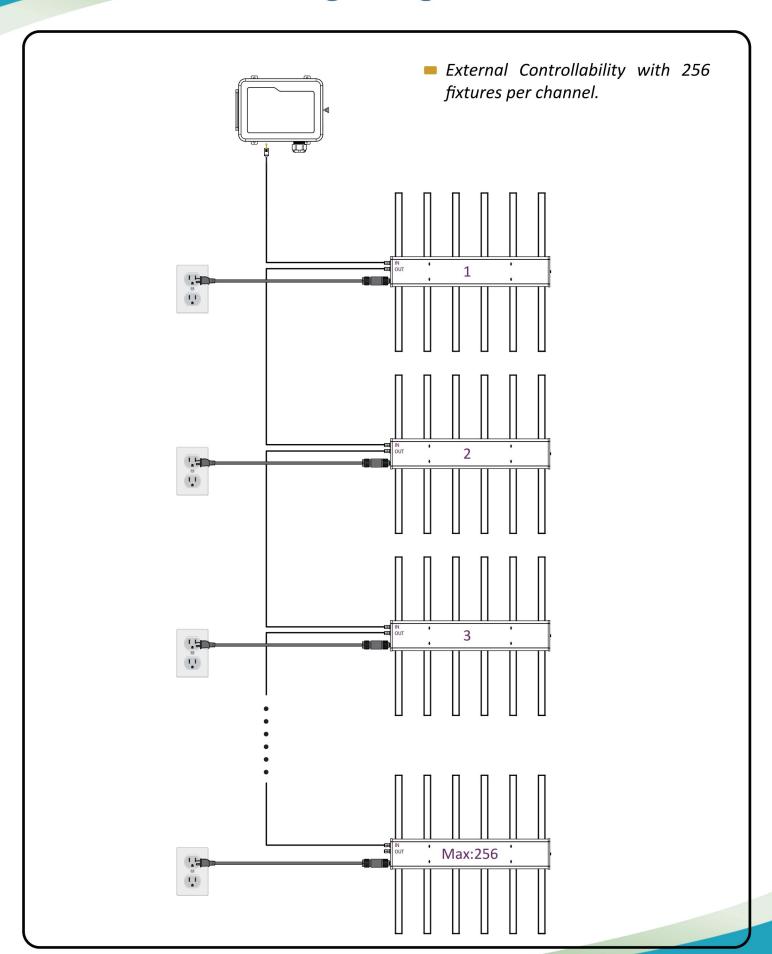


SUITABLE FOR DAMP LOCATIONS



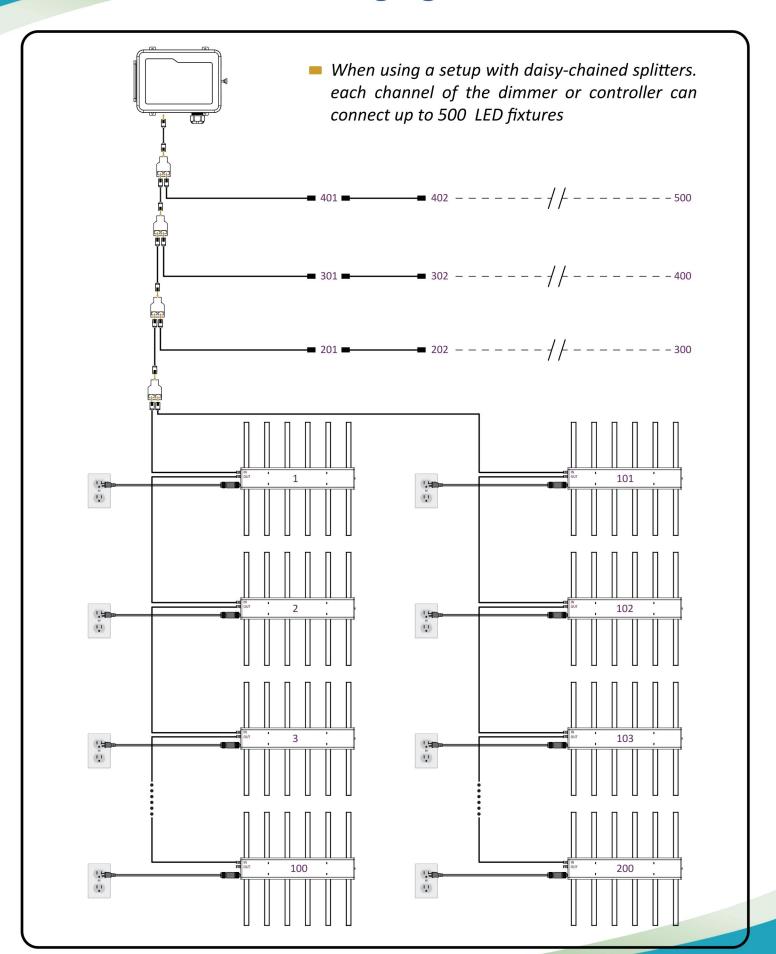


Digital signal





Analog signal





Package Diagram

