



USER MANUAL

BLACKCOB F600



Thank you for choosing

BLACKCOB



WARNING: Please read and follow the instructions before installing and using Thank you for choosing your **BLACKCOB**.

1. BLACKCOB F600 New Gen / 650W

- 4 x 150W BLACKCOB engines
- 90 - 270V
- High density PPFD corner to corner
- Customizable light distribution
- Wide coverage
- Deep light penetration
- 5 Year Full Warranty
- Designed for use in open rooms, tents, multi-cameral systems and warehouses.
- User friendly compact design
- Suitable from seed to harvest
- Plug & Play

INTRODUCTION

Thank you for purchasing our products. In this manual you will find relevant information to use your BLACKCOB equipment safely. Please read prior to installation. We sincerely wish you a wonderful experience and please feel free to contact our customer service any time for further advice. Welcome to the family, good luck and much success!

PRODUCT DESCRIPTION

BLACKCOB is a first-class lighting fixture designed specifically to increase photosynthetic activity in plants and provide highly optimized lighting conditions over the canopy. Our revolutionary and unique patented modular design will ensure best PAR coverage and uniform distribution over any surface by offering fully customizable footprint enabling active radiation to effectively reach every spot up to the corners significantly improving peripheral development. Most compact high end LED fixture in the market based in cutting edge LED technology and best in class build quality. Designed to deliver maximum power, control, comfort and reliability standards for your small, medium and big scale professional indoor grow.

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If you still have questions, please visit www.blackcob.com/support

2. Safety Recommendations and Warnings



WARNING: Please read and follow all Safety Recommendations and Warnings before installing your **BLACKCOB**

- Be sure to meet all legal and technical regulations in your facility to use this equipment.
- **Do not** attempt to open, rewire or reconfigure any components of the light system. It will void the warranty and could cause serious injury or death. For any technical assistance contact our customer service.
- **Do not** expose to:
 - Condensing humidity, heavy mist, fog or direct spray.
 - Temperatures outside the specified range.
 - Dust and contamination.
- **Do not** use the fixture if the lamp or cords are damaged. See troubleshooting in this manual or contact technical service for further advice if needed.
- **Never** use the light if fans are not operating properly. In case of fans malfunction, disconnect damaged engine/s and contact technical service. Operating engines can continue to be used.
- The use of other lighting module may damage the product and will void the warranty.
- Modifications to the cords can damage the product.
- Always disconnect the product before any adjustment.
- Never touch the LED chip while functioning.
- **Do not** use the fixture near flammable, explosive or reactive substances.
- **Do not** use sulfur vaporizers or water misters. Sulfur and calcium deposits on your lamp may cause damage.
 - The installation and use of the fixture is the responsibility of the end user. Incorrect use or installation can lead to failure. Damage to the fixture and electronics as a result of incorrect installation and use revokes the warranty.
- Be careful to check no remaining cords from hanging kits or any elements are left surrounding the lights while functioning.
- When lights are on, be careful with the fans in the upper side if handling them.
- Check lights regularly for any dust excess and clean immediately to ensure long lifespan.
- Avoid hitting or touching the lights if working near them.
- Wrap safe and secure when transporting the lights.

3. Package Contents

- 1 BLACKCOB F600 Power supply **x1**



- 2 BLACKCOB lighting engine **x4**



- 3 Power cord **x1** (see available Power Cord Voltage Options)



- 4 BLACKCOB distribution cord **x4** (3mts)



4. Technical Specifications

INPUT	Power	4 x 150W / 600W total
	V/Fq	90 ~ 264 VAC / 47 ~ 67 Hz
	Amps	5,9A/115VAC - 3,1A/230VAC - 2,6A/277VAC
	Efficiency	0,96
	Power factor	0,98/115VAC - 0,96/230VAC - 0,94/277VAC

THERMAL MANAGEMENT	Thermal resistance(Rth)	0,25 °C/W
	Thermal conductivity	>13 w/mk
	Junction Temp (Tj)	≤65°C

		1 Engine / 150W	2 Engines / 300W	3 Engines / 450W	4 Engines / 600W
OUTPUT	PPF (Typ)	~375	~750	~1125	~1500
	Efficacy umol/w (Typ)	~2,5	~2,5	~2,5	~2,5
	Luminous flux (Typ)	~27000	~54000	~81000	~108000
	Efficacy lm/w (Typ)	~180	~180	~180	~180
	Beam angle	120°	120°	120°	120°

COVERAGE*	Flowering	2 x 2 / 3 x 3 ft	3 x 3 / 4 x 4 ft	4 x 4 / 5 x 5 ft	4 x 4 / 6 x 6 ft
	Vegetative growth	Up to 4 x 4	Up to 5 x 5	Up to 6 x 6	Up to 7 x 7
	Recommended height	18 - 28 in	18 - 28 in	18 - 28 in	18 - 28 in

YIELD**	Total	200 - 400 grams	400 - 800 grams	600 - 1200 grams	800 - 1600 grams
	Ratio	1,5 - 2,5 g/w	1,5 - 2,5 g/w	1,5 - 2,5 g/w	1,5 - 2,5 g/w

MONTHLY COST***	12/12 Photoperiod	USD\$7	USD\$14	USD\$21	USD\$28
	18/6 Photoperiod	USD\$10	USD\$20	USD\$30	USD\$40
	20/4 Photoperiod	USD\$11,7	USD\$23,4	USD\$34	USD\$46,8
	24/0 Photoperiod	USD\$14	USD\$28	USD\$42	USD\$56

DURABILITY	Lumen maintenance	L90 + 70000 hours
	Lifespan	10 years

* Coverage and distribution can be adjusted through modular independent engines to be located accordingly to surface requirements.

** Yield average considering optimal growing conditions.

*** Reference values based on c13 per Kw. Will vary depending on location cost per Kw.



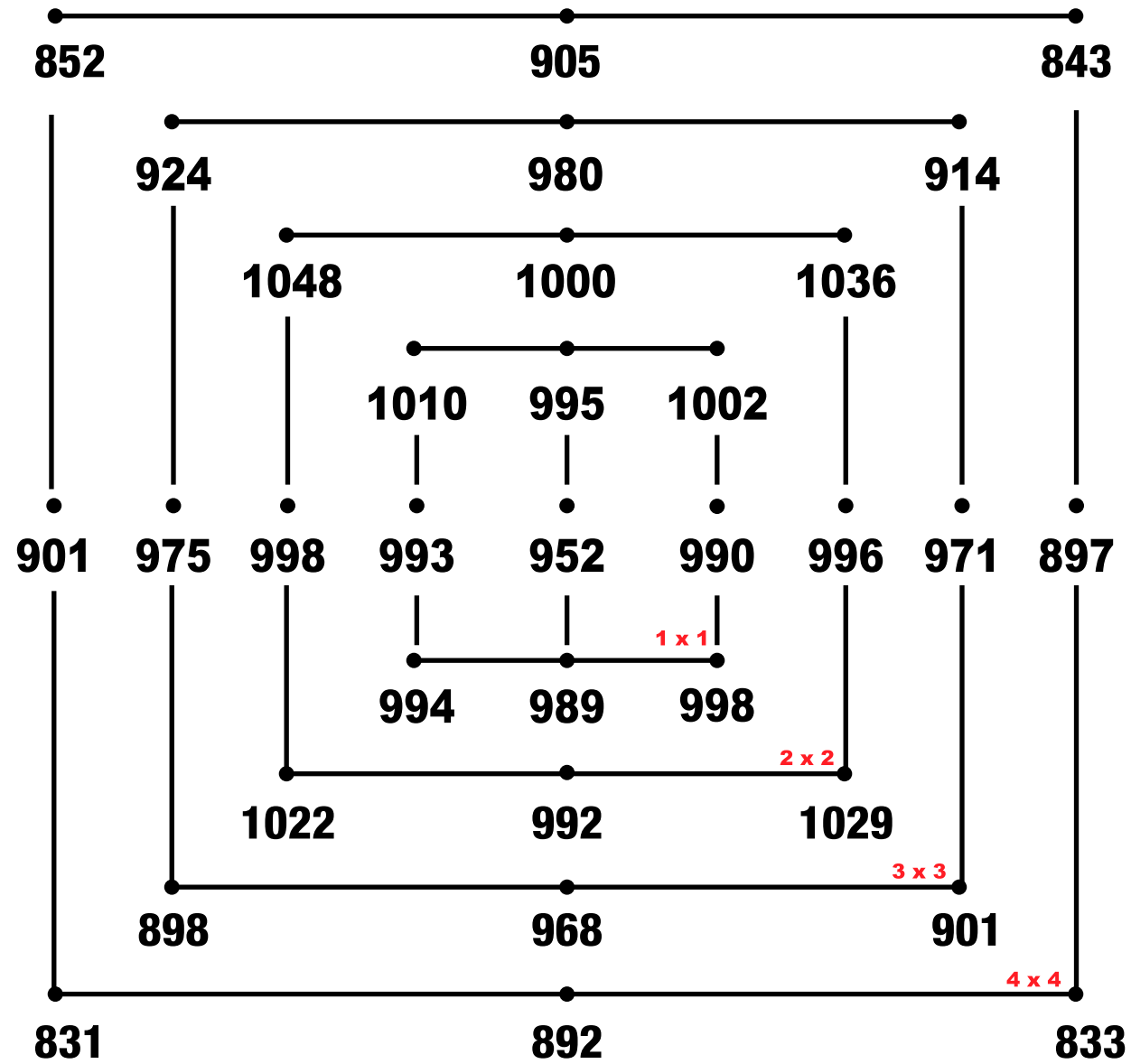
Best in class MEANWELL power supplies. Direct partnership.



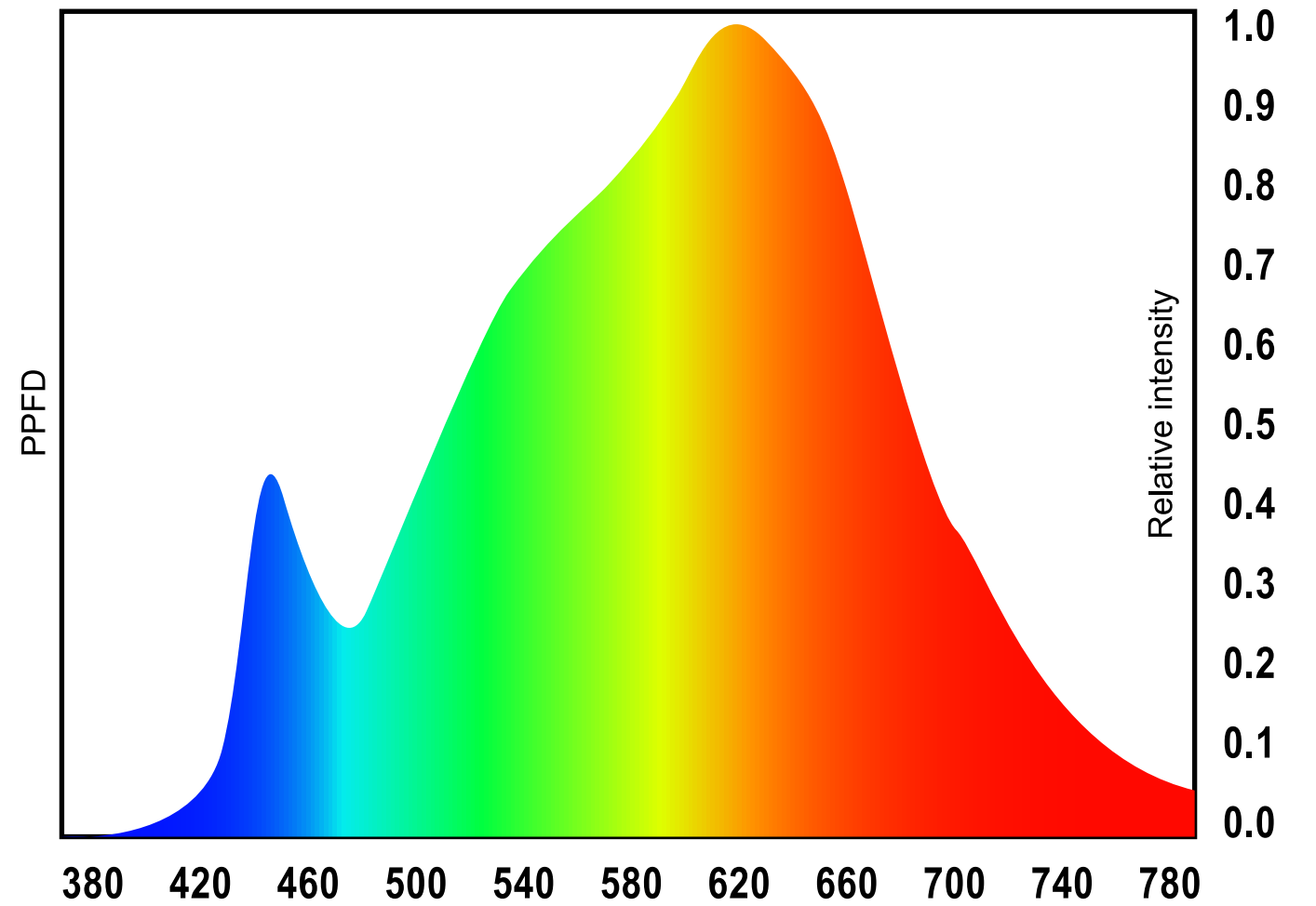
Output parameters measured with professional spectrometre Asensetek lightning pro flagship.

5. PPFD Map (Footprint)

HEIGHT : 50 cms / 20"
 AREA : S.QM



6. SPD (Spectral Power Distribution)



7. Product installation

1. Locate power supply in definitive spot. Commonly over the tent or mounted to wall using wall mount kit (included).
2. Locate hangers according to required light distribution over your surface.
3. Secure lighting engines in the hangers.
4. Connect each distribution cord from power supply output to lighting engine input. Be aware to follow correct connector orientation when plugging in. Secure knob to obtain fully waterproof sealed connections.
5. Connect AC cord to mains and power supply input. System is ready to function, alternate ON/OFF with power switch.

8. Proper Use and General Care

Follow steps below to help your light system retain peak performance.

- Hang Fixture at a minimum of 14" from bottom of Fixture to top of plant canopy. Less than 14" distance may harm the plants and affect optimal light coverage and distribution.
- Always allow for adequate ventilation of Fixtures to ensure your lighting system can properly cool. Failure to do so may shorten the lighting system's lifespan.
- Wipe down outside of Fixture with a damp rag. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots. All cleaning should be done with the light system unplugged from its power source.
- Avoid touching diodes with your hands, even if powered off.
- Never clean light system with detergents or abrasives.

9. BLACKCOB Support

Please visit www.blackcob.com/support for further information regarding correct use of your equipment and more advice related to technical service and customer support.

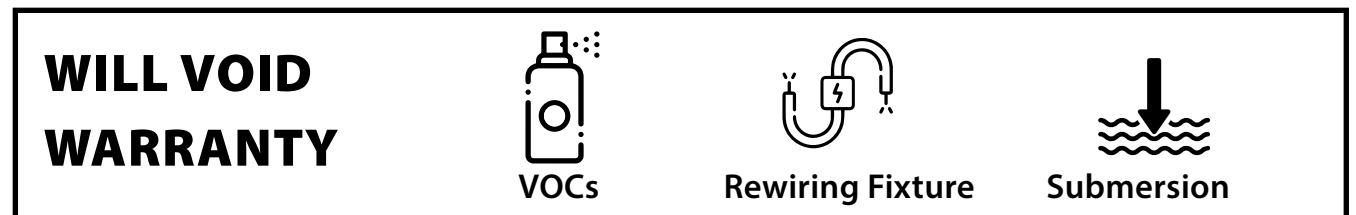


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10. Five (5) Year Full Manufacturer's Warranty

Five (5) Year Full Manufacturer's Warranty from date of purchase. Please follow all instructions and guidelines to ensure warranty is not voided.

This warranty does not apply to any product which has been damaged, defaced, subjected to misuse, abnormal service or handling (including shipping damage) or which has been altered in design or construction.



To file a Warranty claim, visit blackcob.com/support and contact technical service.



This product is for horticulture use only.
Not suitable for room illumination.

Legal Disclaimer

BLACKCOB products are to be used for lawful purposes only. It is the responsibility of you as the purchaser to know and abide by all laws pertaining to the use of BLACKCOB products. BLACKCOB will NOT be held liable for any unlawful state or federal activity arising out of the use of our products. By purchasing a BLACKCOB product, you are agreeing to these terms and conditions, confirming that you as the purchaser are attesting to the lawful use of our product and are thereby solely responsible for acting in conformance with all applicable regulations.

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Questions about your Blackcob email us at:
info@blackcob.com



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