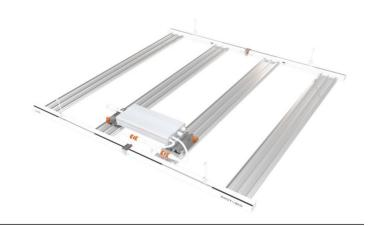
PTBZ1000768S4X

PHOTOBIO•MX2 LED, 680W, 120-277V

S4 SPECTRUM

PHOTOBIO•MX2 high efficiency LED is designed for horticultural professionals looking to increase performance and yields while maximizing ROI. Robust commercial design utilizes wide bars to deliver high light levels while allowing air circulation. The high efficiency \$4 spectrum provides more red, far-red, and blue wavelengths to deliver vigorous growth and optimize flower development. Multilayer usage can be utilized to maximize canopy square footage within existing structure footprint.



System Overview

Model PTBZ1000768S4X

Fixture Type Multibar Horticultural LED

Spectrum \$4

Photon Flux (PAR 400-700 nm) 1870 µmol/s Photon Flux (PBAR 280-800 nm) 1906 µmol/s Input Power (W) 680

Efficacy (280-800 nm) 2.8 µmol/J

Input Voltage Range 120-277 VAC Auto Recognition

Lifetime L90: > 50,000hr
Optics Conformal Coating

Dimmable 0-10 VDC / On-board Knob

Driver Attached driver - remotely mountable

Operating Environment Wet Location

Ingress Protection Rating IP65

Warranty Period 5 Year Limited

Manual output adjustment iLOC Integrated Light Output Control



iLOC Manual Output Adjustment Settings

	voltage		40%	55%	70%	85%	100%
	120V	Power (W)	266.8	369.4	472.9	583.4	699.2
		Amperage (A)	2.239	3.118	4.001	4.937	5.914
	208V	Power (W)	264.6	364.1	464.9	571	681.2
		Amperage (A)	1.343	1.801	2.293	2.792	3.318
	22017	Power (W)	264.3	364.1	464.1	569.9	678.9
	230V	Amperage (A)	1.236	1.649	2.067	2.525	3.007
	240V	Power (W)	264.5	363.4	463.4	569.1	678.7
		Amperage (A)	1.193	1.581	1.987	2.427	2.878
	277V	Power (W)	264.5	363.6	463.2	568.4	676.2
		Amperage (A)	1.099	1.423	1.764	2.130	2.511

Driver Electrical Specifications

Model	PTBZ1000768S4X	Frequency	50/60Hz
Fixture Power (W)	680	THD	<10%
Input Voltage Range	120-277 VAC	ta	-40
Max Voltage Range	108-305 VAC	tc	90
Max Input Power	714	Daisy-chain	Yes

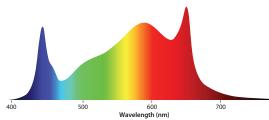
Driver Input Amperage Reference

0.97

Voltage Input	120V	240V	277V	
Typical Amerage	5.67	2.83	2.45	
Max Amperage	5.95	2.98	2.58	

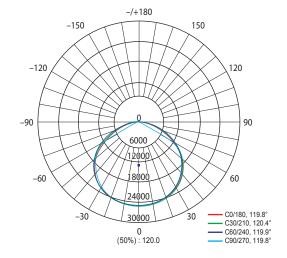
S4 Spectrum

Normalized Photon Output



S4 Spectrum: Provides highly efficient full spectrum with a healthy red-to-blue ratio to drive photosynthesis. Light energy between 500–599nm, previously thought wasted, penetrates deeper into the plant canopy promoting photomorphogenic responses. High color rendering "white" light aids to rapidly identify potential threats to your crop and provides superior working conditions and safety for personnel. Ideal for both flowering and vegetative production.

Photosynthetic Photon Intensity Distribution











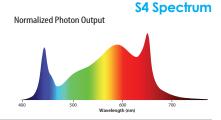
Power Factor

PTBZ1000768S4X

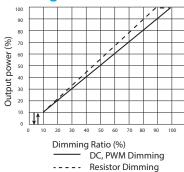
PHOTOBIO•MX2 LED, 680W, 120-277V

S4 SPECTRUM





Dimming Ratio



Operating Conditions

Operating Environment Wet Location Ingress Protection Rating IP65 Material N/A	Rated Operating Temprature Minimum Operating Temprature Maximum Operating Temprature	77°F/25°C -4°F/-20°C 104°F/40°C

Optical Specifications

Oplics	120 degrees
Total Diode Quantity	2584
Spectrum	\$4
Lifetime	> 50.000 hr

Driver Specifications

•		
Microprocessor Control	Yes	
Open Circuit Protection	Yes	
Short Circuit Protection	Yes	
Overtemperature Protection	Yes	
Over/Undervoltage Protection	Yes	
Over/Undervoltage Indicator	Yes	
Output Compensation	Yes	
IP Rated Daisy Chain Connector	Yes	
Internal EMI Suppression	Yes	

Safety Certifications

safety Certifications	
Certification Mark	cETLus
Certified to UL 8800	Yes
Certifiied to CSA C22.2 # 250.0	Yes
Compliant to OOI UL 8800	Yes
IEC 62471 Photobiobilogy	
Safety Rating	Risk Group 2
FCC Commercial	Yes
FCC Residential	Yes

Power Harness Options

Specific cable harnesses based on facility requirements.

CHE1063000W 10' F 16AWG WT w/leads, Harness

CHE1063010W 10' F 16AWG WT 110–120V Plug, 5-15P, Harness CHE1063015W 10' F 16AWG WT 208–240V Plug, 5-15P, Harness CHE1083020W 10' F 18AWG WT 277V, L7-15P, Harness

PHOTOBIO AC Power Distribution Tree Cabling Options

Plug and play power cables that allow interconnectivity of multiple fixtures on a single circuit.

PTBAC40APM PHOTOBIO AC Female Panel Mount, 40A M25, Pigtail 6" 10AWG
PTBAC40AJ10 PHOTOBIO AC Power Link Cable, 40A M25 Connector, 10'
PTBAC40A1T4 PHOTOBIO AC Power T Cable, 40A M25 to EN100, 1-T, Ferrite, 4.5'
PTBAC40A1T6 PHOTOBIO AC Power T Cable, 40A M25 to EN100, 1-T, Ferrite, 6.0'

PHOTOBIO Communication Tree Cabling System & Accessories

Plug and play communications cables that allow interconnectivity from a centralized controller.

TREE CABLING SYSTEM

PTBCC8850W PHOTO LOC 0-10V Control Cable 8' Trunk + 5' Branch
PTBCCJ16W PHOTO LOC 0-10V Control Cable 16' Jumper
PTBCC8300 PHOTO LOC 0-10V Control Cable, 300' 3P-2P
PTBC4RJ112P20 PHOTO LOC 0-10V TM Adapter Cable, RJ11-2P 20'
PTBXRC PHOTO LOC 0-10V Signal Repeater

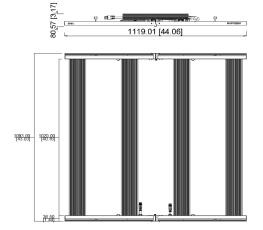
Mechanical Specification

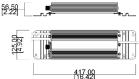
Dimensions (L x W x H) 1093 x 1119 x 80.6 mm / 43.03 x 44.06 x 3.17 in Net Weight 11.2 kg / 24.6 Lb

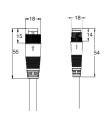
Thermal Management Passive

Material Aluminum, PC, Anodized

Dimensional Drawina







Operation Notes

For use with a generator, line conditioning equipment to control input voltage must be used in order to avoid damage to fixture. Failure to observe this warning will result in void of warranty. Contact us for more information. Clean overspray from lens with a damp microfiber cloth. Product is not designed to use with residential power strip.













WARNING - POSSIBLE RISK OF INJURY TO EYES AND SKIN

Hazardous optical UV, HEV, and IR radiation may be emitted from the light source. Always wear personal protective equipment ensuring complete shielding of skin and eyes. Avoid prolonged exposure and looking directly at light source.

