

PTB1130VEPX

PHOTOBIO•VP LED, 32W, 100–277V

VE SPECTRUM

PHOTOBIO•VP is a modular, high efficiency LED system designed for vertical farming. PHOTOBIO•VP's slim vertical profile maximizes vertical real estate allowing greater production space, and its modular design lets you link and power multiple 100–277V fixtures from a single input power. PHOTOBIO•VP features a tailored spectrum for vegetative and propagation growth stages, ideal for vertical farming and propagation. IP65 ingress protection rating from dust and liquids. IP65 power connection allows quick attachment to the fixture for easy installation and maintenance. Sold in pairs.



System Overview

Model	PTB1130VEPX
Fixture Type	Horticultural LED
Spectrum	VE Spectrum
Typical Photon Flux Output	73.6 $\mu\text{mol/s}$
Input Power	32W
Efficacy	2.3 $\mu\text{mol/joule}$
Input Voltage Range	100–277V
Lifetime	L90>50,000 hr
Dimmable	No
Driver	Internal driver
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Warranty Period	5 Years

Ballast Electrical Specifications

Model	PTB1130VEPX					
Fixture Power	32W					
Input Voltage Range	110–277V					
Max Voltage Range	90–305V					
Power Factor	0.95					
Frequency	50/60HZ					
Daisy-Chainable	Yes					
Voltage	110V	120V	208V	230V	240V	277V
Maximum number of VP fixtures can be linked (PCS)	10	10	18	20	21	23

Ballast Input Amperage Reference

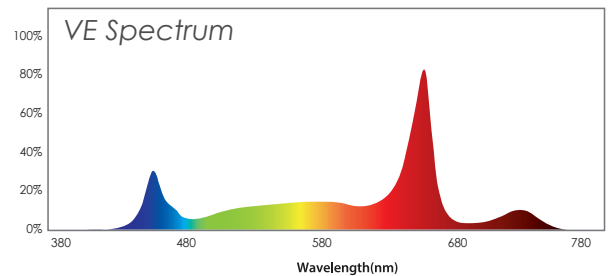
Voltage Input	120V	208V	240V	277V
Typical Amperage	0.26	0.15	0.13	0.11
Max Amperage	0.28	0.16	0.14	0.12

Operating Conditions

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

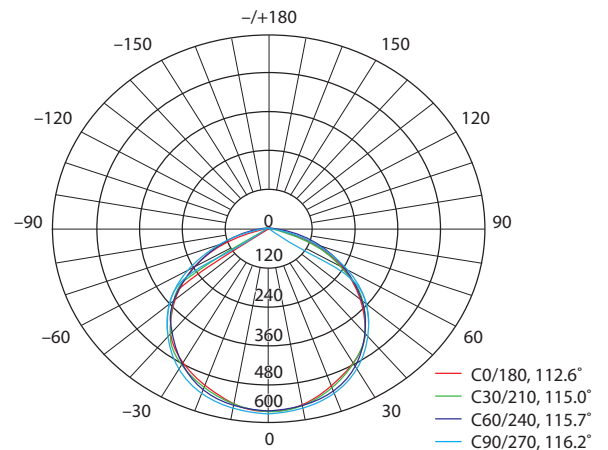
VE Spectrum

Normalized Photon Output



VE Spectrum: VE Spectrum: Vegetative centric spectrum focused ideal proportions of blue to red and far red light. Perfect for vertical farms and vegetative stages of plant cycle

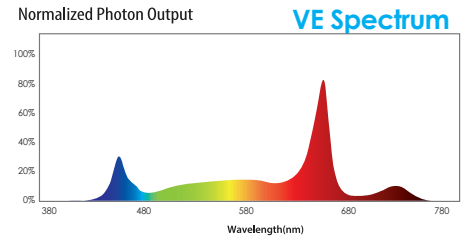
Polar Diagram



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Driver Specifications

Microprocessor Control	Yes
Open Circuit Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Over/Undervoltage Protection	Yes
Output Compensation	Yes
Internal EMI Suppression	Yes
IP Rated AC Input	Yes

Safety Certifications

ETL	Yes
CE	Yes
FCC Commercial	Yes
FCC Residential	Yes

Power Harnesses Options

Specific cable harness sold separately based on facility requirements.

Item Code	Image	Type	Description
CHM028200W		 w/leads	24" leads PHOTOBIO VP Harness, 18AWG
CHM108210W		 110-120V	10' 110-120V PHOTOBIO VP Harness, 5-15P, 18AWG
CHM108215W		 208-240V	10' 208-240V PHOTOBIO VP Harness, 6-15P, 18AWG
CHM108220W		 277V	10' 277V PHOTOBIO VP Harness, L7-15P, 18AWG

Mechanical Specification

Dimensions (L x W x H)	1200mm L x 35mm W x 35mm H 47 1/4" x 1 3/8" x 1 3/8"
Net Weight	0.7 kg / 1.54 lbs
Thermal Management	Passive cooling
Material	Aluminum, PC

Dimensional Drawing



	! 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.