

POWERHARVEST®



THE POWER YOU NEED
TO GET THE HARVEST
YOU DESERVE

FEATURES & SPECIFICATIONS

General Description

Available in a range from 1000 PPF ($\mu\text{mol/s}$) and 1300 PPF variations, the PowerHarvest® from Illumitex is designed and tested specifically for indoor grow operations, including greenhouses. Scientifically developed and patented horticultural growth spectra and high power LEDs combined with wide distribution optics ensure optimum plant growth and highest yields. The wireless controls option equips growers with the ability to easily control one fixture or thousands of fixtures from a laptop computer, tablet or smart phone. All PowerHarvest® fixtures ship "controls ready."

Mechanical Construction

Fixture housing is fabricated from laser cut and formed 5000 series aluminum sheet. Precision-machined die extrusions and stainless steel fasteners protect against corrosion in damp environments.

Electrical Specifications

Ultra-high efficient, constant-current drivers with 6kV input surge suppression. Input voltages options are 120-277VAC (auto-sensing), 277-480 (auto-sensing), 50/60Hz. Dimming and on/off control utilized in conjunction with optional wireless controls.

Thermal Management

LED thermal management is accomplished by means of a custom, extruded aluminum heat sink. Venting slots at either end of the fixture and dual, replaceable, high-efficiency cooling fans provide further cooling. Fan assemblies can be easily removed in the field via tool-less wiring connectors for cleaning or replacement.

LEDs

High-power, wide angle (115°) multi-chip LED packages combine multiple wavelengths to create a spectrum ideal for various horticulture applications and needs. Highly efficient, Cree XLamp technology delivers superior performance and reliability in a small 3.5mm x 3.5mm package.

Finish

White fixture finish is an electrostatically applied Super-Durable TGIC polyester powder coating. Finish is highly weather and UV resistant and provides superior gloss and color retention. Black heat sink finish is an electrochemical anodizing process that converts the surface of the metal into a long-lasting, high performance aluminum oxide finish that cannot peel or chip.

Testing and Compliance

- ETL/cETL listed and CE marking compliant
- RoHS compliant
- EMI compliance (FCC Part 15)
- 50,000 hour life to L70
- 5-year warranty
- Rated to 40°C ambient operating temp



Manufactured in Austin, TX



POWERHARVEST[®]

PART NUMBER ORDERING GUIDE

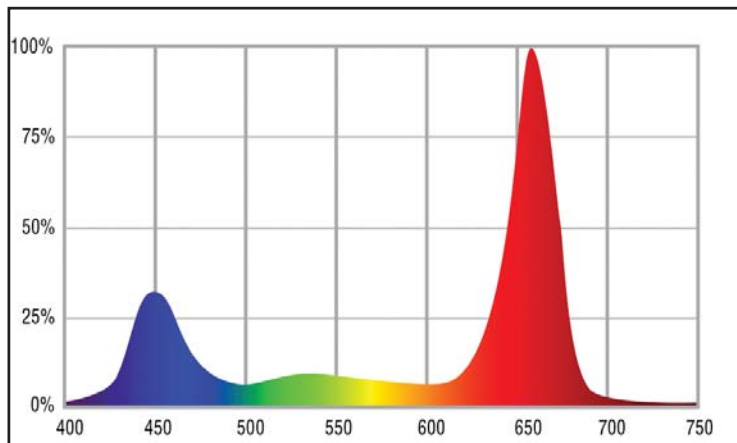
Series	PPF	LED SPECTRA see chart	INPUT VOLTAGE	CONTROLS	CABLE (3-conductor)	PLUG TYPE
PHW PowerHarvest	10N 1000	F3	U 120-277	R Wireless Receptacle ¹	C3 3ft	Blank Flying leads, no plug
	14EL 1200					P120 120VAC, 3-prong plug
	14HL 1300					P240 240VAC, 3-prong plug P277 277VAC, 3-prong plug

Notes: 1. Wireless Receptacle (R) option is standard and includes shorting cap.

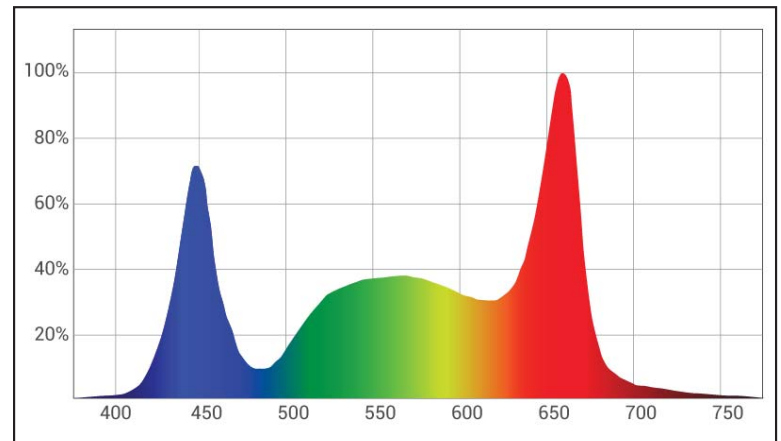
GENERAL ATTRIBUTES

Operating Frequency	50/60Hz
Operating Temperature	4°F to 104°F (-20°C to 40°C)
Dimensions	12.0" X 12.0" X 10.5"
Estimated Weight	25 lbs
Power Factor	>0.90
Warranty	5 years

SPECTRUM



F3 - This spectrum is known as the full cycle spectrum developed specifically to foster quality growth at each stage. It produces fast germination and high quality vegetative and flowering plants.



X6 - This full spectrum maximizes red and blue nm wavelengths to allow for optimal chlorophyll A and B absorption with a balance of green wavelengths to allow much deeper canopy penetration.

SPECIFICATIONS

PowerHarvest® 10 New Generation		
	PHW10N	PHW10N (High voltage)
Operating Voltage	120-277Vac	277-480Vac
Typical Running Current	1.8 A @ 120Vac 1.7 A @ 240Vac 1.7 A @ 277Vac	1.7 A @ 277Vac 1.3 A @ 347Vac 1.0 A @ 480Vac
Power Consumption	480 Watts	460 Watts
PPF	1050	1050
Heat Output	1644 BTU/hr	1576 BTU/hr
Efficiency	2.2 µmol/J	2.2 µmol/J

PowerHarvest® 14 High Efficiency				
	F3 Spectrum		X6 Spectrum	
	PHW14EL	PHW14EL (High Voltage)	PHW14EL	PHW14EL (High Voltage)
Operating Voltage	120-277Vac	277-480Vac	120-277Vac	277-480Vac
Typical Running Current	4.8 A @ 120Vac 2.1 A @ 240Vac 2.1 A @ 277Vac	2.0 A @ 277Vac 1.6 A @ 347Vac 1.2 A @ 480Vac	4.5 A @ 120Vac 2.2 A @ 240Vac 1.9 A @ 277Vac	2.0 A @ 277Vac 1.6 A @ 347Vac 1.2 A @ 480Vac
Power Consumption	580 Watts	560 Watts	537 Watts	530 Watts
PPF	1170	1190	1060	1060
Heat Output	1977.8 BTU/hr	1875.5 BTU/hr	1831.2 BTU/hr	1807.3 BTU/hr
Efficiency	2.0 µmol/J	2.2 µmol/J	2.0 µmol/J	2.0 µmol/J

PowerHarvest® 14 High Output				
	F3 Spectrum		X6 Spectrum	
	PHW14HL	PHW14HL (High voltage)	PHW14HL	PHW14HL (High voltage)
Operating Voltage	120-277Vac	277-480Vac	120-277Vac	277-480Vac
Typical Running Current	4.8 A @ 120Vac 2.4 A @ 240Vac 2.4 A @ 277Vac	2.4 A @ 277Vac 1.9 A @ 347Vac 1.4 A @ 480Vac	5.2 A @ 120Vac 2.6 A @ 240Vac 2.3 A @ 277Vac	2.3 A @ 277Vac 1.8 A @ 347Vac 1.3 A @ 480Vac
Power Consumption	640 Watts	640 Watts	630 Watts	610 Watts
PPF	1280	1300	1200	1200
Heat Output	2250.6 BTU/hr	2216.5 BTU/hr	2148.3 BTU/hr	2080.1 BTU/hr
Efficiency	2.0 µmol/J	2.0 µmol/J	2.0 µmol/J	2.0 µmol/J

POWERHARVEST®

MOUNTING

Each PowerHarvest® fixture ships with (2) 3.25" tall C-hooks for mounting to trusses and cross beams. Select either CHK-1 or CHK-2 when placing order.

MOUNTING ACCESSORIES (ordered separately; field installed)	
MODEL	DESCRIPTION
ACH-10	10-ft aircraft cable hangers (2) with captive hook ends
CH-10	10-ft chain hangers (2) with hook ends
CHK-1	C-hook for 1 - 5/8" truss
CHK-2	C-hook for 2 - 1/8" truss

WIRELESS CONTROLS (ordered separately; field installed)	
MODEL	DESCRIPTION
SY-SS420-002	Wireless gateway
SY-TL5-B1	Wireless node (120-277V only)

DIMENSION LINE DRAWINGS

