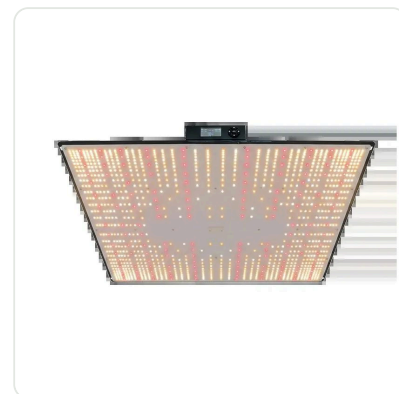


Ultra-Thin Quantum Board LED Grow Light, 100-400W

Product datasheet — Grow lights | Weltech (Shanghai) Co., Ltd.

The Ultra-Thin PB Series Quantum Board LED Grow Light (available in 100W, 200W, and 400W configurations) is designed for indoor plant cultivation, grow tents, plant racks, and greenhouse supplemental lighting.



Key features ■

- High System Efficacy: Delivers 2.7 $\mu\text{mol/J}$ efficiency and up to 1080 $\mu\text{mol/s}$ PPF output (400W model).
- Full Growth Spectrum: Balanced output with 3000K warm white, 5000K cool white, and 660nm deep red for full-cycle plant development.
- Redesigned Diode Distribution: Optimized light array provides uniform PPFD coverage across the canopy without hot spots.
- 0-10V Daisy-Chain Dimming: Onboard rotary dimmer knob with RJ ports for multi-fixture synchronized group control.
- IP65 Damp-Location Rated: Sealed board protects against high humidity, dust, and sulfurization in indoor grow environments.
- OEM logo, colour and packaging options

Specifications ▀

Parameter / Specification	Value / Technical Detail (400W Benchmark)
Model Series	PB Series Ultra-Thin Quantum Board (100W / 200W / 400W)
Rated Input Power	400W ± 5% (100W and 200W options available)
Photon Efficacy (PPE)	2.7 umol/J
Photosynthetic Photon Flux (PPF)	1080 umol/s (400W Model)
PPFD Intensity	1625 umol/m²/s @ 30 cm (12 in)
Light Spectrum / CCT	Full Spectrum (3000K Warm White + 5000K Cool White + 660nm Deep Red)
Beam Angle	120° Wide Coverage
Input Voltage Range	Standard 100-277V AC (277-480V High-Voltage Optional), 50/60Hz
Power Factor (PF)	0.98
Coverage Area	5 × 5 ft (1.2 × 1.2 m)
Dimming & Group Control	0-10V Rotary Dimmer Knob + RJ Daisy-Chain Control Ports
Ingress Protection Rating	IP65 (Damp Location Rated, Moisture & Anti-Sulfurization)
Thermal Management	Passive Heavy-Gauge Aluminum Heat Sink (0 dB Silent Cooling)
Operating Temperature	-20°C to +40°C (-4°F to 104°F)
Power Cord Length	Standard 1.5 m (4.9 ft)
Fixture Dimensions (L x W x H)	25.4" x 21" x 2.3" (646 × 535 × 58 mm)
Package Dimensions (L x W x H)	675 × 565 × 95 mm (26.6 × 22.2 × 3.7 in)
Fixture Net Weight	12.6 lbs / 5.7 kg
Lifespan Rating & Warranty	> 50,000 Hours / 3 Years Limited Warranty

Specifications are typical values. Production tolerances and custom options are confirmed on the quotation.

Specification notes ▀

- Dimensions and tolerances are confirmed on the drawing or sample approved before production.
 - Custom sizes, colours, finishes and branding are available; tooling may apply for new shapes.
- Packing quantities are set per model; mixed cartons and pallet loading can be arranged.
 - Certificates and test reports are issued against the order and model.

Applications ▀

- Indoor cultivation rooms and grow tents from propagation to flowering
- Vertical racking and multi-tier benches with low headroom
- Greenhouse supplementary lighting and research chambers

Customisation & OEM ▀

Item	Options
Branding	Logo printing on product and carton, custom retail packaging
Product options	Size, colour, finish, wattage, spectrum, plug type and voltage to your market
Documentation	Commercial invoice, packing list, B/L, certificate pack, test report
Order terms	MOQ, price and lead time confirmed per specification and quantity

Packing & delivery ▀

Item	Details
Packing	Export carton with inner protection; pallet or loose loading on request
Shipping	Express 5–9 days · air freight 7–12 days · LCL 20–40 days · FCL 20–45 days
Port	Shanghai, China
Payment	T/T, L/C at sight — confirmed with the order

Quality & compliance ▀

- ISO 9001:2015 production management
- Pre-shipment inspection with photo report
- CE / ETL / RoHS documentation on request
- Batch traceability by order number
- Spare parts and after-sales support
- 12-month limited warranty

Ordering and technical support

Send the product, quantity and destination port. We reply the same day with price, lead time and shipping options.

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Product page: <https://weltechsh.com/product/ultra-thin-quantum-board-grow-light/>

