



## Heraeus Noblelight LHP10H Mark IIM Power Supply

### The new LHP10H Mark IIM makes upgrading your Legacy Heraeus microwave system and/or power supply easy!

The LHP10H Mark IIM power supply was designed to replace an existing Heraeus Noblelight P600M or VPS-6 power supply in a retrofit installation. The existing I600-series irradiator and RF detector can be used and do not need to be replaced.

The new **LightHammer® LHP10H Mark IIM** power supply features...

- State-of-the-art electronics technology
  - Power Factor Correction (PFC) of ~99% at full load
  - Minimum Total Harmonic Distortion (THD)
  - 200–480 VAC, 50/60 Hz universal input voltage
  - Higher reliability
  - Multiple communications protocols enabled (DeviceNet™, Profibus®, Profinet®, EtherNet/IP™, Dry Contact)
  - Real-time diagnostic capability
  - Light weight and compact design
- Improved total cost of ownership
  - The irradiator can be mounted vertically using “D” bulbs

LHP10H Mark IIM requires less power than the legacy systems due to much improved efficiency and incorporation of power factor correction circuitry. Therefore, less current is required, and thus lower costs for electricity. Furthermore, with the power supply's completely balanced current draw from the 3-phase, your plant's existing electrical system will see an improved load handling capability. All reasons to upgrade to this new, state-of-the-art technological power supply.

**IMPORTANT NOTE:** When installing the LHP10H Mark IIM into an existing legacy installation, all power supplies in a control group/row must be replaced. Differing power supplies cannot be mixed in a control group. Some PLC remote input commands may need to be reprogrammed.

## Specifications: LHP10H Mark IIM

In many existing installations, interconnecting cables are located in cable trays/raceways; Heraeus Noblelight has created adapter cables so the existing cables do not need to be removed. An adapter cable is supplied to connect the existing irradiator control cable to the LHP10H Mark IIM power supply. An adapter cable is provided to connect the existing P600M RF detector cable to the rear of the LHP10H Mark IIM. The VPS-6 RF detector cable, however, does need to be replaced since this connection is made through the Multi-Row I/O or Customer I/O module and is not directly connected to the power supply. A pigtail input power adapter cable is available to connect the J101 terminal block of the LHP10H Mark IIM to the P101 input power connector used for the existing power supply.

### Power Supply: Model LHP10H Mark IIM

**Weight:** 25 kg (55 lbs.).

**Dimensions (W x H x L):** 419 mm x 217 mm x 777 mm with connector (16.48" x 8.54" x 30.6" with connector).

**Cooling:** Internal fans.

**Input Voltages:** 200 V–480 V (auto-ranging), 3-phase, 50/60 Hz.

**Max Line Current:** At 380–480 V: 14.2–11.3 at 200–240 V: 27.5–22.6 A.

**Mounting position:** Horizontal—unit can be free standing, stacked, or rack mounted.

**Line Power at 100%:** 10 kVA.

**Clearance:** Allow 305 mm (12 in.) clearance front and rear of the power supply for cooling air flow and cable connections.

**Safety Interlocks:** E-stop external interlocks (customer I/O) RF fault.

**Mag Current @ 100% Power:** 890 mA/magnetron.

**Mag Current Output Accuracy:** ±1%.

**Power Factor @ 100% power:** 99%.

**I/O Communications:** Master/Slave (dry contact)(S), DeviceNet™ (O), Profibus® (O), Profinet® (O), EtherNet/IP™ (O).

**Power Level Control:** 4–20 mA, 0–10 vdc, 4-bit binary, front panel.

**Front Panel Indicators/Controls:** Power On/Off switch, USB port, display unit with ON/Standby/OFF buttons and Power Level control buttons.

**Output Range:** 35% to 100%.

**Audible Noise Level:** 65 dBA @ 1 m (at lamp Off/Reset).

**3-phase:** 50/60 Hz.

**Enclosure Rating:** IP20 (NEMA 1).

**Stacking:** 5 units maximum.

Specifications subject to change without notice.

Germany

**Heraeus Noblelight GmbH**

Heraeusstraße 12-14

63450 Hanau

Phone +49 6181 35 4499

Fax +49 6181 35 9926

hng-uv@heraeus.com

www.heraeus-noblelight.com

USA

**Heraeus Noblelight America LLC**

910 Clopper Road

Gaithersburg, Maryland

20878-1357

Phone +1 301 527 2660

Fax +1 301 527 2661

info.hna.uvp@heraeus.com

www.heraeus-noblelight.com/uvamericas

The new power supply is **AIMS® (Automated Intelligent Monitoring System)** enabled and available with additional hardware and software. This feature provides careful on-board monitoring and analysis of system parameters, which can provide valuable information regarding the system performance and status. The result is improved system uptime and maintenance.

### LHP10H Mark IIM Power Supply Features & Applicability

Features	LHP10H
<b>S / W Update</b>	
USB port	S
<b>Communication</b>	
Master / Slave (dry contact)	S
DeviceNet™, Profibus®, Profinet®, EtherNet / IP™	O
<b>Monitoring</b>	
AIMS®	O
<b>Possible replacement for Power Supply:</b>	
P300S, LHP6 (legacy), P150, P155, P160, VPS-4	NA
P600M*	A
VPS-6* (only when configured for 600 W / in.)	A
LHP10 (legacy)	NA
<b>For use with Irradiator – Mounting position: Any orientation</b>	
I300M series	NA
16 / 16LH (legacy and Mark II) series	NA
I6B Mark II	NA
I250 series	NA
I600M* series	A
LHI10 (legacy and Mark II) series	NA
LHI10B Mark II	NA
<b>For use with Modular Blower:</b>	
K6 (legacy), K6 Mark II, K250	NA
K600 (legacy)	A
K600 Mark II	NA

**S** = standard

**NA** = not available/applicable

**O** = optional

**A** = available

**\*** = requires adapter cables or new cables

ISO 9001 Certified QMS



Germany

**Heraeus Noblelight GmbH**

Heraeusstraße 12-14

63450 Hanau

Phone +49 6181 35 4499

Fax +49 6181 35 9926

hng-uv@heraeus.com

www.heraeus-noblelight.com

USA

**Heraeus Noblelight America LLC**

910 Clopper Road

Gaithersburg, Maryland

20878-1357

Phone +1 301 527 2660

Fax +1 301 527 2661

info.hna.uvp@heraeus.com

www.heraeus-noblelight.com/uvamericas

Japan

**Heraeus K.K.**

Noblelight Division

Sumitomo Fudosan Otowa

Building 1F, 2F, 5F

2-9-3 Otsuka, Bunkyo-ku

112-0012, Tokyo

Phone +81 3 6902 6602

Fax +81 3 6902 6613

info.hkk@heraeus.com

www.heraeus-noblelight.jp

China

**Heraeus Noblelight (Shenyang) Ltd.**

Shanghai Branch

2F, 5th Building, No. 406 Guilin Rd

Xuhui District

Shanghai 200233, P.R. China

Hotline +86 400 080 2255

Phone +86 (0) 21 3357 5555

Fax +86 (0) 21 3357 5333

info.hns@heraeus.com

www.heraeus-noblelight.com