

USHIO Power Supply

High Frequency Power Supply for Discharge Lamps HFC 3000

Power Range from 700 Watt to 3600 Watt



- ✿ High Efficiency more than 0,96 @ 3000W
- ✿ No Igniters necessary for cold start
- ✿ Easy Operation
- ✿ Output control terminal 0V-10V
- ✿ Status output / Isolated control interface
- ✿ Thermal design with integrated fans
- ✿ Digital Power Management – high output stability
- ✿ short to ground protection

- ✿ 3 Phase Line Input 380V to 480Volt without neutral operation
- ✿ 50Hz / 60Hz

- ✿ Very small size according to the used technology : 250 x 255 x 60 [mm]
- ✿ weight 2,6 Kg
- ✿ increased lamp lifetime up to 20%
- ✿ Qualified for maritime application

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Technical Data sheet:- HFC 3000

Custom modifications of power curves and adoption to other lamp types are possible upon request.

Connector:

Ballast and mains: connector / 2,5mm² wire diameter
Control interface: SUB D 15 female
Power Terminal: L1 / L2 / L3 / PE and PE for shield
Lamp 1 / Lamp 2: High voltage connector to lamp

Standards: EMI and RFI has to be done with the complete assembled project

I/O Signals:

Pin 1: Mains fail
Pin 2: Lamp on
Pin 3: Power on
Pin 4: GND
Pin 5: Input Power control voltage 0-10 Volt (**)
Pin 8: 24V/30mA input external supply
Pin 9/10: Temp > 80/100 °C
Pin 11: Lamp Fail
Pin 12: GND (same as Pin 12)
Pin 15: On - Off 24Volt input active when high
(**) step less regulation possible over pulse modulation (PFM) max 200Hz

Safety: (at the ignite output)

Because of instant strike the output voltage to the lamp can reach values of up to +/- 5000V! Please ensure minimum 5mm clearance between all lamp terminals to PE, to prevent arc to ground situations Wiring has to meet national requirements for electric safety.

Power Steps (pin 5 analog voltage input)

>1,6 V= on	<1 V= off
1,7 V = 700 Watt	2,5 V=1200Watt
4,2 V = 1600 Watt	5,5 V= 2100Watt
7,0 V = 2600 Watt	8,5 V = 3100 Watt
>9,3 V = 3600 Watt	

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