

## Electronic Ballasts For Amalgam UV Lamps

# ROTA<sup>®</sup>

## U501-0021-35HR

**110 to 240V 50/60Hz**  
**Max. Current**  
**1.13A @ 110V or 0.52A @ 240V**

Lamp Power : 42~105W  
Lamp Current : 1.2A  
U-OUT: 300V      ta : -15~40°C  
PF(λ) : >0.99      THD : <10%

### Electronic Ballast for UVC Lamps

Lamp Types  
GPHA357/T5 - GPHA843/T5

$t_c = \text{max. } 70^\circ\text{C}$

- Preheat Start      ■ High Power Factor
- Limiting Lamp Power      ■ For indoor use only
- Lamp Status Indication
  - Green LED = Lamp On
  - Red LED = Lamp Fault
- **Ballast must be grounded**

IP67  
RoHS

Fault      Work

Wiring Diagram

**Marinaqua Sarl**  
[www.aquariolux.com](http://www.aquariolux.com)    +352621880881

This soft start Ballast is specially designed for multiple starts of the lamps while keeping the damage caused to the lamp to a minimum. It has internal protection as well as high IPX rating 7 and can be used for outdoor applications but we recommend it for indoor applications. In addition it is grounded according to class A requirements. The output socket is Weipu SP1710/S5

### Precautions:

Never handle it before disconnecting it from the mains. There are no serviceable parts on it.

**When the socket is neither connected to the plug nor closed with a cap, water and dirt may penetrate into the socket and cause electric leakage or short circuit !**

**Warning:** Make sure that the device is connected to an ELCB (earth leakage circuit breaker) with an assigned leakage rating of max. 30 mA (DIN VDE 0100T739). Only operate the device on a correctly installed power plug.

**Dealer stamp**

**Buyer name**

**Date of purchase**

**Buyer address**

**Signature**

**Signature**

Norms Compliance:

EN 55015:2013 / EN 61000-3-2:2006+A1:2009+A2:2009 / EN 61000-3-3:2013/ EN 61547:2009/EN 61000-4-2:2009/  
EN 61000-4-3:2006+A1:2008+A2:2010/EN 61000-4-4:2012/EN 61000-4-5:2006/EN 61000-4-6:2014/EN 61000-4-8:2010  
EN61000-4-11:2004/EN 61347-1:2008+A1:2011+A2:2013/EMC: 2004/108/EC

### ROTA CABLESET 5 GLANDS DOR SUBMERSIBLE UV LAMPS

The cableset for submersible UV's consists of a 5 pin Weipu plug type SP1710/P5, an Industrial cable type

H05BQ-F 5G \* 0.75MM<sup>2</sup> and a stainless steel 316L socket. The socket itself consists of a 316L stainless steel 316L cable gland IPX8, a main body type „B“ in which a G10Q is fixed with a peripheral spring. There is one Oring in the front side of this part which is one of the 3 seals of the complete socket. The 3<sup>rd</sup> part is the front lock called „C“ which has 2 Orings inside. Once the complete socket is assembled and fixed into a water vessel, the Lamp can be replaced without emptying the vessel of its water. The socket wires are cabled as follows:

5- YG Ground

( 2-Blue & 3-Brown ) ( 4-Grey & 5-Black )

( 2-Grey & 3-Black ) ( 4-Blue & 5-Brown )

The socket/plug should either be closed or else protected or connected to the respective plug or lamp . When connecting to a plug, **the nut should be turned until it is firmly connected.**

### Assembly

Please first prepare the Quartz tube, lamp and the cableset on a clean table. Make sure you touch the lamp and the Quartz using clean gloves. Stains from the fingers may impair the quality of the light and cause even damage to the lamp. Insert the lamp into the Socket of the cableset. Slide the part „C“ onto the Quartzglass tube at the open end side of the tube with the female thread facing part „B“ . Now you can slide the quartzglass over the lamp until the Part B + C meet each other. Fasten part C on part B but not yet firmly. Next push the Quartz tube firmly into part B. Now fasten part C onto part B firmly. This is important because it will create a strong seal and mechanical fixing of the quartz tube and will prevent the Tube from going out of the holder.

Thereafter insert the Cableset plug into the socket on the Ballast and tighten it firmly. Only after this, you can insert the SCHUKO plug into the mains. Make sure that no UVC light can be seen and that it is setup according to the CE Norms. For safety reasons, a professional electrician should do that.

Since it is a soft start Ballast, after you will power the Ballast, a faint light starts on each side of the lamp. Only after the LED on the Ballast turns green, the lamp is working correctly. Green Led shows the lamp is working correctly. Red Led means it is out of order. Remember not to look into the UVC light !!!! It will cause irreparable damage to eyes and skin!!!!



MARINAQUA SARL 52 RUE DE KOERICH. L-8437 STEINFORT sam@aquarium.lu   Gsm +352-621880881