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## Phos-4 Temperature regulated LED supply, specifications

https://shop.spectrecology.com/product/temperature-requ...ed-source-phos-4/

#### **GENERAL**

Size (H x W x D)90 x 66 x 95 mm

Weight0.5Kg

Storage Temperature5°C to 55°C

Operating Temperature Range15°C to 35°C

Humidity range – Non Condensing; 15°C to 30°C;0 to 80%

Humidity range – Non Condensing: 30°C to 35°C:0 to 40%

Pollution degree (As per IEC 61010-1)2

Power Input (use power supply provided – P4-PSU)12V, 2A

Power Connection 5.5 mm, 2.1 pin (Pin positive)

### POWER SUPPLY (P4-PSU)

Input Voltage Range90 to 264 V

Input Frequency47 to 63 Hz

EfficiencyLevel VI. CoC Tier 2

Country Plug adaptersUnited States, United Kingdom, European Union, Australia

#### LED DRIVE

Number of Channels4

Maximum current per LED800mA

Maximum current – Total1200 mA

Current stability (Operating temperature range) < 0.5mA

Current transient – ON<1.0 µS

Current transient – OFF< 0.2 µS

LED temperature Stability (Continuous 500mA; Ambient 25°C; LED 35°C)< 0.2°C

Time to Stabilise (Ambient 25°C; LED 35°C)< 5 minutes

### FIBRE OPTIC COUPLING

DefaultSMA 905

With P4-MIC16 mm diameter (Fibre Bundle Adapter)

With P4-MIC and P4-LLG5 mm diameter (Liquid Light Guide Adapter)

#### **OPTICAL**

Z AdjustmentM4 Drive Screw (Stages selectively friction engaged)

LED Z- Range (From fibre tip)1 to 27mm

Lens Z- Range (From fibre tip)1 to 22mm

Lens X-Y- Range (Phos-4 P only)±1.5mm

Lens (Phos-4 P only)f 3.3mm, NA 0.47, Aspheric, AR coating 350-700nm

### **OPERATION MODES**

Continuous0 to LED Max Current; ~0.3mA Steps;

PWM Frequency1Hz to 200kHz

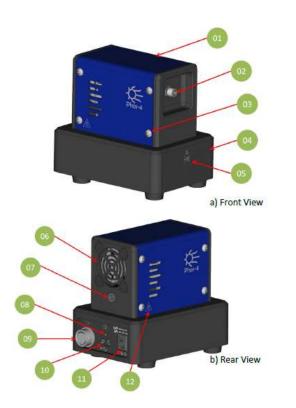
PWM fraction0 to 100% in 1% steps

Sequence Frequency1Hz to 20kHz

# Sequence Steps0 to 255 counts

## **INTERFACES**

USBVirtual COM port (Mini-B plug; CDC Class)
UARTTTL Compatible Levels (Using P4 Connect)
Logic InTTL Levels (direction defined by P4 Connect)
Logic OutTTL Levels (direction defined by P4 Connect)



- Main Cover
- SMA Fibre Connector
- Cover Fixing Screw
- Dan Base
- Warning Icon: Do not stare at beam
- Fan Grill
- Z-Adjustment Screw
- Status Indicator
- P4-Connect Socket
- USB connector
- Power Connector
- Warning Icon: Turn off before removing cover