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Phos-4 Temperature regulated LED supply, specifications

<https://shop.spectrecoology.com/product/temperature-regu...ed-source-phos-4/>

GENERAL

Size (H x W x D) 90 x 66 x 95 mm
Weight 0.5 Kg
Storage Temperature 5°C to 55°C
Operating Temperature Range 15°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 5.5mm, 2.1 pin (Pin positive)

POWER SUPPLY (P4-PSU)

Input Voltage Range 90 to 264 V
Input Frequency 47 to 63 Hz
Efficiency Level VI, CoC Tier 2
Country Plug adapters United States, United Kingdom, European Union, Australia

LED DRIVE

Number of Channels 4
Maximum current per LED 800mA
Maximum current – Total 1200 mA
Current stability (Operating temperature range) < 0.5mA
Current transient – ON < 1.0 μ S
Current transient – OFF < 0.2 μ S
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

Default SMA 905
With P4-MIC 16 mm diameter (Fibre Bundle Adapter)
With P4-MIC and P4-LLG 5 mm diameter (Liquid Light Guide Adapter)

OPTICAL

Z Adjustment M4 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) \pm 1.5mm
Lens (Phos-4 P only) f 3.3mm, NA 0.47, Aspheric, AR coating 350-700nm

OPERATION MODES

Continuous 0 to LED Max Current; \sim 0.3mA Steps;
PWM Frequency 1Hz to 200kHz
PWM fraction 0 to 100% in 1% steps
Sequence Frequency 1Hz to 20kHz

Sequence Steps 0 to 255 counts

INTERFACES

USB Virtual COM port (Mini-B plug; CDC Class)

UART TTL Compatible Levels (Using P4 Connect)

Logic In TTL Levels (direction defined by P4 Connect)

Logic Out TTL Levels (direction defined by P4 Connect)



a) Front View



b) Rear View

- 01 Main Cover
- 02 SMA Fibre Connector
- 03 Cover Fixing Screw
- 04 Base
- 05 Warning Icon:
Do not stare at beam

- 06 Fan Grill
- 07 Z-Adjustment Screw
- 08 Status Indicator
- 09 P4-Connect Socket
- 10 USB connector
- 11 Power Connector
- 12 Warning Icon:
Turn off before removing cover