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Type: _____
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Project: _____



sPDS-480ca 24V

Power/data supply for large-scale Ethernet installations

sPDS-480ca 24V is a power/data supply designed for large-scale Ethernet LED lighting installations using low-voltage luminaires from Philips Color Kinetics.

sPDS-480ca 24V

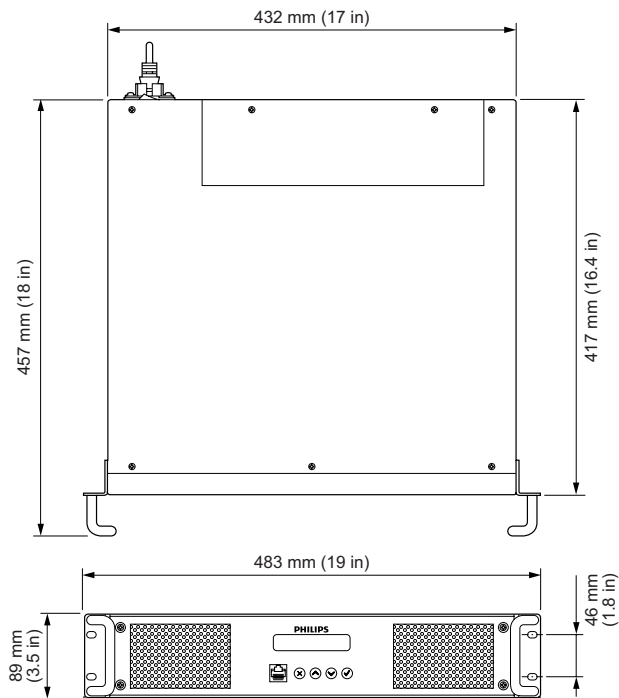
Power/data supply for large-scale Ethernet installations

- sPDS-480ca 24 V delivers 480 watts of output via sixteen 30-watt ports and automatically accommodates input voltages ranging from 100 VAC to 240 VAC. Short-circuit protection prevents device failure due to incorrectly wired fixtures. The standard IEC power inlet accepts both US and international power cables.
- With onboard controls, sPDS-480ca 24 V incorporates automatic fixture discovery and testing, eliminating the need for additional addressing tools or software. sPDS-480ca 24 V features a backlit LCD for easy menu viewing.
- Housed in a 2U rack-mountable enclosure, sPDS-480ca 24 V includes rack handle and surface-mount brackets, for versatile mounting options.
- Over-temperature detection and selectable shutdown options protect sPDS-480ca 24 V against operation beyond its rated temperature specification. Variable-speed fans keep noise levels low and include serviceable air filters.

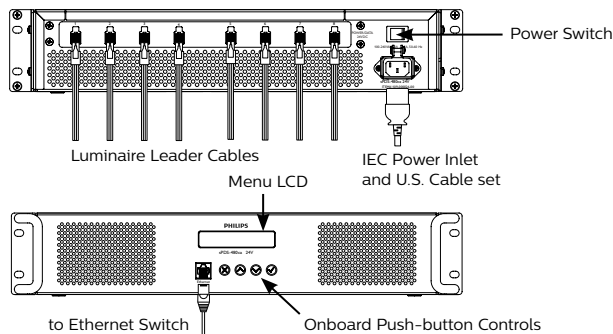
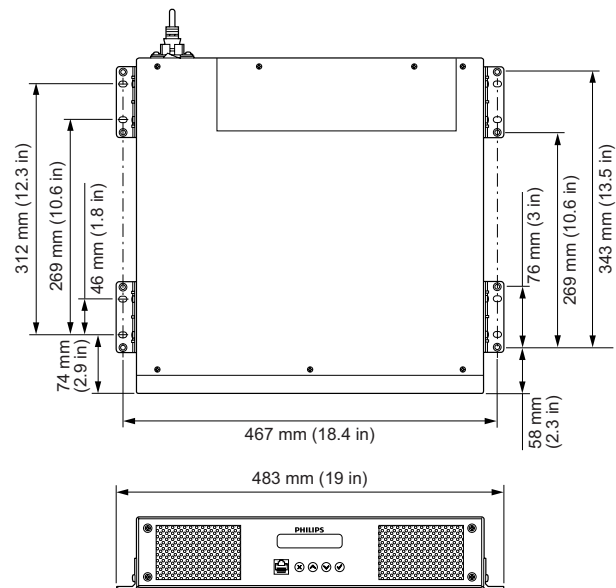
For detailed product information, please refer to the sPDS-480ca 24V Product Guide at <http://www.colorkinetics.com/ls/pds/spds480/>.

Dimensions

Rack-Mount Configuration



Surface-Mount Configuration



Specifications

Due to continuous improvements and innovations, specifications may change without notice.

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Electrical

Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz
Power Consumption	6 A at 100 VAC 5 A at 120 VAC 2.5 A at 240 VAC
Power Output	24 VDC, 480 W (60 W per power port)
Fuse Rating	(8) 4 A, 125 V, 5 x 20 fast blow fuses

Control

Data Input Source	Philips full range of Ethernet controllers, or KINET-compatible* third-party Ethernet controllers
Data Input	RJ-45 input connectors
Power and Data Output	(8) 4-pin output receptacles
Power Input	IEC 320 receptacle type C13, locking clamp

Physical

Dimensions <i>(Height x Width x Depth)</i>	89 x 483 x 457 mm (3.5 x 19 x 18 in)
Weight	12 kg (26.5 lb)
Housing Material	2U aluminium chassis
Finish	Black matte
Mounting	Rack and Surface-mountable
Compatible Luminaires	(600) eW Flex Micro nodes (480) eW Flex Compact nodes (480) iColor Flex LMX gen2 nodes
Temperature Ranges	-10 to 50 °C (14 to 122 °F) Operating -10 to 50 °C (14 to 122 °F) Startup -40 to 80 °C (-40 to 176 °F) Storage
Humidity	0 to 95%, non-condensing
Cooling	(2) speed-configurable fans, with serviceable air filters
Airflow	Front panel, back panel output
Heat Dissipation	25% of total power input

Certification and Safety

Certification	UL/cUL, FCC Class A, CE, PSE
Classification	UL Class 2 power supply
Environment	Dry/Damp Location, IP20



* KINET is the Ethernet lighting protocol from Philips Color Kinetics.

Part numbers

Use Item Number when ordering in North America.

Power Supply	Item Number	Philips 12NC
sPDS-480ca 24V, US power cord <i>Power/data supply, IEC US power cord, rack-mount brackets, surface-mount brackets, and Installation Instructions</i>	109-000026-01	912400133528

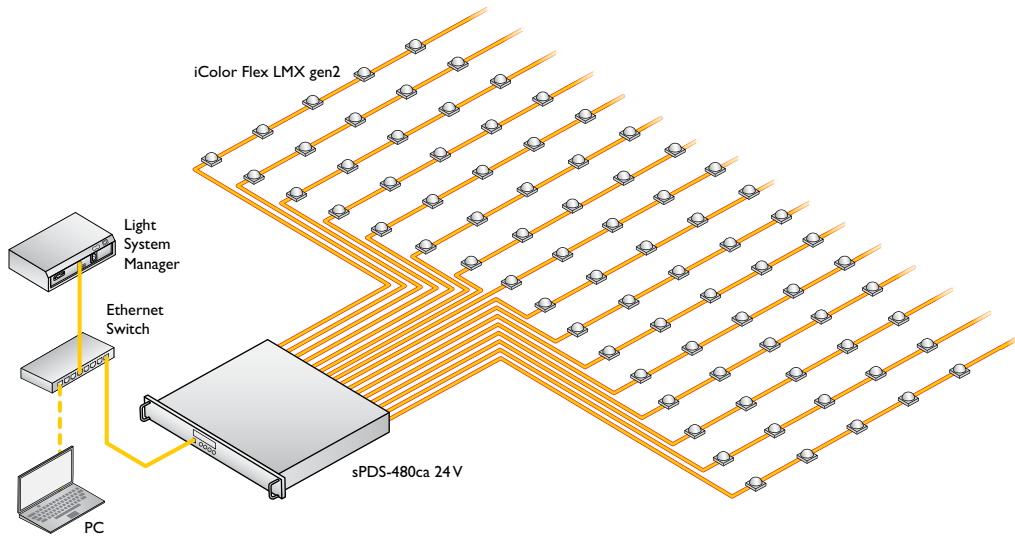
Additional Information

For device mounting and maintenance details, refer to the Installation Instructions included in the product packaging, or download documentation from www.colorkinetics.com/ls/pds/spds480/.

sPDS-480ca 24V wiring diagrams are available online at www.colorkinetics.com/support/wiring/.

For complete instructions detailing sPDS-480ca 24V onboard controls and features, refer to the Addressing and Configuration Guide available online at www.colorkinetics.com/support/addressing/.

Installation Example



Each sPDS-480ca 24 V unit delivers power and data to a maximum of 480 nodes. The maximum number of sPDS-480ca 24 V units per installation varies based on the controller type and the node quantities of the fixtures.

