C2N-SPWS300

Cresnet® Power Supply, 300 Watts

- *300 Watt regulated power supply*
- *8 independently managed outputs*
- *16 Cresnet distribution ports*
- *Cresnet monitoring and control*
- *Expands the Cresnet power and distribution capabilities of any Crestron control system*

The C2N-SPWS300 provides a convenient and compact centralized power and termination solution to support the myriad touch screens, keypads, and other peripherals that make up a Crestron® system.

Intelligent Power Distribution

The C2N-SPWS300 is a 300 Watt regulated power supply designed for powering a large network of Cresnet® devices. Power is supplied through 8 individually managed outputs. Each output is rated for up to a maximum of 75 Watts, with a total system rating of 300 Watts. Electronic circuit breaker protection is provided on every output, which can be individually monitored and reset from the control system. The voltage level at each output can even be monitored along with the ambient temperature and fault status for the complete power supply system.

Sequential Switching

To minimize current inrush upon startup, the C2N-SPWS300 implements sequential switching of its 8 outputs. The startup process may be activated automatically when AC power is applied, or when 24 VDC is sensed coming from the control system or another power supply.

Cresnet Distribution

Connected to the Cresnet port of any Crestron control system, the C2N-SPWS300 provides a total Cresnet distribution solution. Carrying both data and power, the 16 Cresnet ports afford great flexibility for the termination of numerous Cresnet devices, with easy expansion using C2N-HBLOCK termination blocks (sold separately). It is also ideally designed to enhance the built-in Cresnet distribution capabilities of the Crestron control system.

Versatile Mounting Options

The C2N-SPWS300 can be installed in a Crestron CAEN Automation Enclosure using the optional CAEN-MK (sold separately), or it can be rack mounted using the optional C2N-RMAK (sold separately). Alternately, the C2N-SPWS300 can be placed on a shelf or mounted on any vertical surface using its built-in mounting flanges.

Specifications

Load Ratings

Per Channel	75 Watts (3.125 Amps) @ 24 VDC regulated
System Total	300 Watts (12.5 Amps) @ 24 VDC regulated
Ripple/Noise	<150 mV
Load Protection	Electronic circuit breaker per channel, each rated at 75 Watts nominal/100 Watts maximum, 4 Amp 125 V internal fuse; all channels shut off in case of total system overload
Sequential Startup	Outputs activate sequentially when power supply system is enabled (see PWR ON, PWR OFF/SLAVE control)

Power Requirements

4 Amps, 100-240 VAC, 50/60 Hz

Connections

1-8	(16) 4-pin 5mm detachable terminal blocks comprising (2) paralleled Cresnet ports per each of (8) output channels
NET	(1) 4-pin 5 mm detachable terminal block; Connects to Cresnet port of a control system; Cresnet data Y and Z terminals pass through to ports 1-8
AC Line	(1) attached power input cable (~1 ft long) with inline IEC320 socket; Connects to grounded AC power source using 3-prong power cable or pigtail cable, both included

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Controls

PWR ON, PWR OFF/SLAVE	(1) rocker switch; enables/disables the power supply system if no external DC voltage is applied to the NET port, or selects SLAVE mode to allow enabling the power supply system remotely by applying an external 24 VDC signal to the NET port
RESET 1-8	(8) miniature pushbuttons; each resets its respective output channel, or momentarily disables the channel while held
SYSTEM RESET	(1) miniature pushbutton; resets all output channels sequentially, or momentarily disables all channels while held
SETUP	(1) miniature pushbutton; used for touch-settable ID (TSID)

LED Indicators

PWR 1-8	(green) Indicate 24 VDC power present at each channel output
OVRLD 1-8	(red) Indicate a load in excess of 75 Watts on a given channel, channel output disabled
SYSTEM OVRLD	(red) Indicates a total load in excess of 300 Watts on the power supply system, all channels disabled
PWR	(green) Indicates power supply system is enabled
NET	(yellow) Indicates communication with Cresnet system
SETUP	(red) Used for touch-settable ID (TSID)

Environmental

Temperature	41° to 104° F (5° to 40° C)
Humidity	10% to 90% RH (non-condensing)
Heat of Rejection	133 BTU/hr

Enclosure

Chassis	Aluminum, black anodized with polycarbonate label overlay, convection-cooled, vented top and sides
Mounting	Surface mount using (2) integral mounting flanges, or 3U 19-inch rack-mountable (C2N-RMAK rack kit sold separately)
CAEN Automation Enclosure	Occupies 1 module space in a single-width enclosure, or 2 side-by-side module spaces in a double-width enclosure (CAEN-MK mounting kit sold separately)

Dimensions

Height	5.19 in. (13.19 cm)
Width	13.25 in. (33.66 cm)
Depth	3.29 in. (8.36 cm)

Weight

5.3 lb (2.4 kg)

Compliance

CE

Models

C2N-SPWS300
Cresnet Power Supply, 300 Watts

Available Accessories

C2N-RMAK
Rack Mount Kit for C2N-SPWS300

CAEN-MK
CAEN Automation Enclosure Mounting Kit for C2N-SPWS300

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

3.29 in.
(8.36 cm)

12.75 in.
(32.39 cm)

3 in.
(7.62 cm)

5.19 in.
(13.19 cm)

4 in.
(10.16 cm)

13.25 in.
(33.66 cm)