

Alkco's RelaxView power distribution module PDM is designed to be utilized with the overall RelaxView digital lighting system. RelaxView PDM is microprocessor controlled and can be addressed by RelaxView Intelligent Wall dimmer IWD modules. RelaxView PDMs can be used to power and control illumination levels for RelaxView Ambient Ceiling Illuminator RVAC, Ambient Recessed Downlight RVAD, Graphic Ceiling Illuminator RVGC and Graphic Wall Illuminator RVGW.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Power Distribution Module ordering guide

example: PDM-0320-1-1-277

Model Number	Wattage	No. of Output Channels ⁴	Dimming	Voltage
<input type="text" value="PDM"/> -	<input type="text" value=""/> -	<input type="text" value=""/> -	<input type="text" value=""/> -	<input type="text" value=""/>
PDM RelaxView Power Distribution Module	0320 ² 320W 0350 ¹ 350W 0520 ² 520W 0600 ¹ 600W 1800 ¹ 1800W	1 1 Class 1 channel 2 2 Class 1 channels 3 ³ 3 Class 1 channels 4 ³ 4 Class 1 channels	0 None 1 IWD (one channel) 2 IWD (two channels) 3 ³ IWD (three channels) 4 ³ IWD (four channels) 1A 0-10V (one channel by others) 2A 0-10V (two channels by others) 3A ³ 0-10V (three channels by others) 4A ³ 0-10V (four channels by others)	120 ¹ 120V 277 ² 277V

Footnotes:

¹ 120V input only available on 350W, 600W, and 1800W PDMs.

² 277V input only available on 320W and 520W PDMs.

³ Only available on 1800W PDM.

⁴ For every PDM output channel that feeds a unique and independently switched Class 1 24 VDC lighting circuit that enters the MRI scan room by penetrating the RF shield, one (1) LCR059.03002.00 Power Line Filter needs to be ordered.



PDM RelaxView power distribution module

Up to 1800 watts

Features

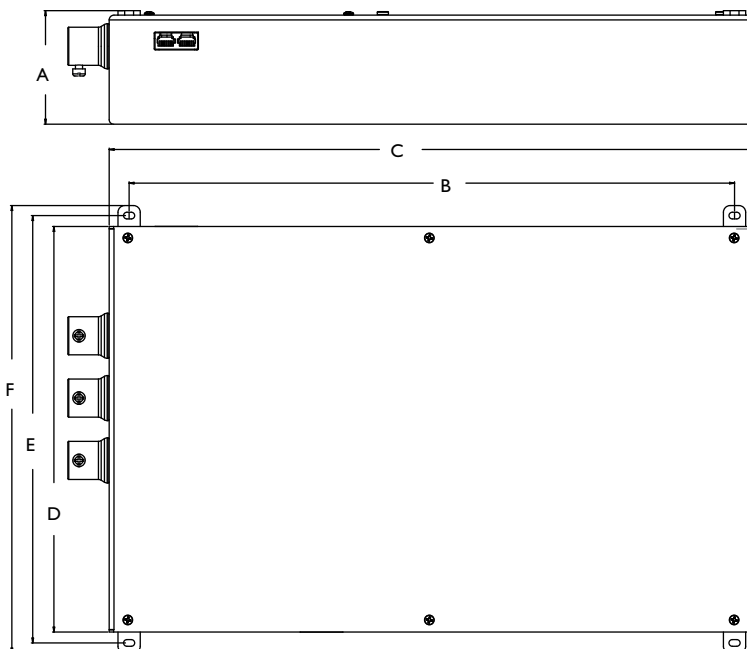
- With up to four Class 1 output channels the RelaxView PDM can power several controllable lighting zones from one PDM.
- Dimming or non-dimming available.
- Dimming via RelaxView IWD or IEC compliant 0-10V devices.
- High frequency PWM dimming control.
- High speed wired communication protocol through CAT5e cable.
- Products are 99% recyclable at end of life.
- Convection (fan-less) cooling.
- UL Recognized switch mode power supply.
- Built in overload, over voltage and over temperature protection.

Specifications

- **Construction:** NEMA 1 aluminum enclosure with multiple 3/4" knockouts for input/output wiring.
- **Finish:** TGIC powder coat finish.
- **Electrical:** Modules available in 120V or 277V input. Output standard 24V DC. Up to four (4) Class 1 25 Amp DC outputs.
- **Installation:** Indoor dry use only.
- **Listing:** Components are CE or ETL listed and RoHS compliant.
- **Warranty:** Modules warranted against defects for 3 years from original date of purchase.

Dimensions

Small enclosure will be provided for 320W, 350W, 520W, and 600W. 1800W will be provided with large enclosure. See chart below for exact dimensions.



Power Distribution Module					
	320W	350W	520W	600W	1800W
A	3.91	3.91	3.91	3.91	3.91
B	18.63	18.63	18.63	18.63	18.63
C	19.88	19.88	19.88	19.88	19.88
D	10.63	10.63	10.63	10.63	13.63
E	11.55	11.55	11.55	11.55	14.63
F	12.20	12.20	12.20	12.20	15.27

Class 1 (NFPA70, National Electrical Code, Art. 725.1-29)

The portion of the wiring system between the load side of the circuit overcurrent device and the connected equipment. Class 1 power-limited circuits must be supplied from a power source that limits the output to 30V with no more than 750 VA.

MRI Applications: Power Line Filter requirements

When applying RelaxView PDM for an MRI application one (1) LCR059.03002.00 must be ordered **for each** output channel that supplies a unique and independently switched Class 1 24 VDC lighting circuit entering the MRI scan room. If the output channel feeds a lighting circuit that does not penetrate the MRI room shield, an LCR filter is not required.

Compatibility

RelaxView Power Distribution Module features can be maximized when used in combination with other RelaxView products such as Intelligent Wall Dimmers IWD. Refer to their respective specification sheets. Active on-board control circuitry allows dimming of one or multiple zones (channels) using RelaxView IWDs or other IEC 60929 compliant 0-10V dimmers. Lutron Nova T[®] is compatible. Consult factory for a list of tested dimmers or to submit a dimmer for testing.

PDM RelaxView power distribution module

Up to 1800 watts

Technical

		Power Distribution Module				
		320W	350W	520W	600W	1800W
OUTPUT	DC VOLTAGE	24V	24V	24V	24V	24V
	RATED CURRENT	13.34A	14.6A	25A	25A	80A
	RATED POWER	320.16W	350W	600W	600W	1920W
	VOLTAGE TOLERANCE	+/-1.0%	+/-1.0%	+/-1.0%	+/-1.0%	+/-1.0%
	LINE/LOAD REGULATION	+/-0.5% / +/-0.5%	+/-0.5% / +/-0.5%	+/-0.5% / +/-0.5%	+/-0.5% / +/-0.5%	+/-0.5% / +/-0.5%
INPUT	VOLTAGE RANGE	90-305VAC	90-264VAC	90-264VAC / 120-254/370VDC	90-264VAC / 120-254/370VDC	90-264VAC / 127-370VDC
	EFFICIENCY (typ.)	94%	87%	87%	87%	90.5%
	AC CURRENT (typ.)	3.5A/115VAC 1.45A/277VAC	7A/115VAC 4A/230VAC	12A/115VAC	12A/115VAC	16A/115VAC
	INRUSH CURRENT (typ.)	75A/230VDC	40A/115VDC	30A/115VDC	30A/115VDC	50A cold start
PROTECTION	OVERLOAD	95-108%	105-135%	105-125%	105-125%	105-125%
		Auto restart when fault removed	Auto restart when fault removed	Protection: Constant current, recovers automatically after fault condition removed	Protection: Constant current, recovers automatically after fault condition removed	Protection: Constant current, recovers automatically after fault condition removed
	OVER VOLTAGE	27-33V	27.6-32.4V	27.6-32.4V	27.6-32.4V	29.5-35V
		Latch mode: power on to return to normal operation.	Latch mode: power on to return to normal operation.	Protection: Shut down o/p voltage, re-power on to recover.	Protection: Shut down o/p voltage, re-power on to recover.	Protection: Shut down o/p voltage, re-power on to recover.
	OVER TEMPERATURE	100°C +/-10°C	80oC +/-10°C	85°C +/-5°C	85°C +/-5°C	80°C +/-5°C
	Protection: Shut down o/p voltage, recovers automatically after temperature goes down.	Protection: Shut down o/p voltage, recovers automatically after temperature goes down.	Protection: Shut down o/p voltage, recovers automatically after temperature goes down.	Protection: Shut down o/p voltage, recovers automatically after temperature goes down.	Protection: Shut down o/p voltage, recovers automatically after temperature goes down.	
ENVIRONMENT	WORKING TEMP	-40 ~+70°C	-20 ~+60°C	-20 ~+60°C	-20 ~+60°C	-35 ~+70°C
	WORKING HUMIDITY	20 ~ 95% RH	20 ~ 90% RH	20 ~ 90% RH	20 ~ 90% RH	20 ~ 90% RH
SAFETY	SAFETY STANDARDS	UL8750, UL1012, UL935, CAN/CSA-C22, EN61347	UL60950-1	UL60950-1	UL60950-1	UL60950-1, TUV EN60950-1
	EMI CONDUCTION	EN55015	EN55015	EN55022 (CISPR22)	EN55022 (CISPR22)	EN55022 (CISPR22)
	EMS COMPLIANCE	EN61000-4-2,3,4,5,6,8,11; ENV50204, ENV55024, EN61000-6-2	NA	NA	NA	EN61000-4-2,3,4,5,6,8,11; EN61000-6-2
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-O/P:3KVAC	I/P-O/P:3KVAC	I/P-O/P:3KVAC	I/P-O/P:3KVAC
OTHER	MTBF	157.1K hrs mim. (25°C)	234.3K hrs mim. (25°C)	197K hrs mim. (25°C)	197K hrs mim. (25°C)	46.3K hrs mim. (25°C)

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