

DIGITAL CONSTANT VOLTAGE/CONSTANT CURRENT CONTROLLER



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A Digital Constant Voltage/Constant Current Controller plays a crucial role in machine vision applications by ensuring stable and precise power delivery to lighting systems. In vision inspection setups, consistent illumination is essential for capturing high-quality images and achieving reliable results. The CV/CC controller provides fine control over voltage and current, allowing users to maintain brightness stability even under varying load conditions. With digital adjustment and monitoring, it enables flexible configuration of lighting modes, supports external triggers for synchronization with cameras, and reduces flicker or noise that could affect image clarity. This level of control enhances the accuracy, repeatability, and efficiency of machine vision systems in industries such as electronics inspection, automotive manufacturing, and quality control automation.

Product Features:

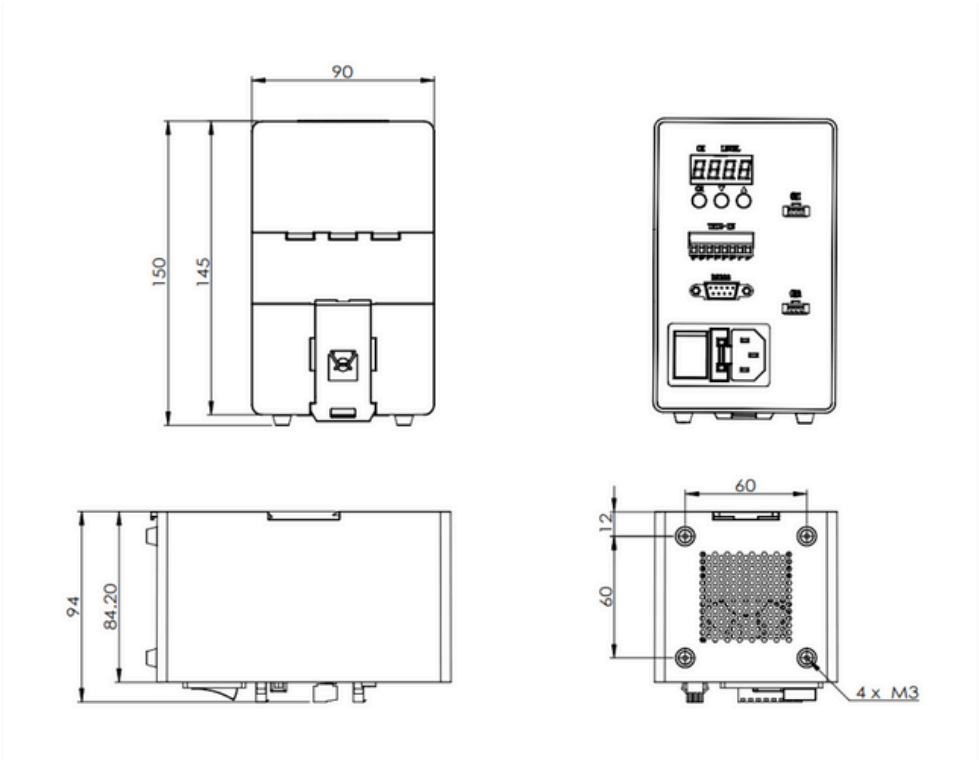
- Supports RS232 communication
- Digital display for easy confirmation of set values
- Supports external trigger mode
- Supports millisecond-level strobe and microsecond-level strobe
- Manual brightness and mode setting, simple operation
- 5~24V bidirectional trigger, adaptable to both high and low-level trigger modes
- Compact size, easy to install, supports screw mounting or C45 rail mounting



Product Datasheet of PS-PDM/PDMI Series

Item	Specification
Input Voltage	AC80–264V 50/60Hz
Output Voltage	24V
Output Current	Refer to Products Table
Operating Modes	4 types – 0: Always Off 1: Always On 2: Millisecond-level strobe 3: Microsecond-level strobe
Light Emission Modes	Always on / Always off / Strobe External trigger supported in always-on and strobe modes
Trigger Mode	Edge trigger, level trigger Strobe mode supports edge trigger Always on/off supports level trigger
Brightness Adjustment	0–255 step brightness adjustment
Millisecond-level Flash Time	1–99 (1–99ms), time unit: ms
Microsecond-level Flash Time	1–99 (10–990 μ s), time unit: 10 μ s
Supported Light Source Type	24V light source, power must not exceed internal power switch total rating
Control Signal Voltage	DC5–24V
Trigger Delay	<80 μ s

Number of Channels	Refer to Products Table
Cooling Mode	Natural cooling for ≤65W, forced air cooling for >120W (with built-in fan)
Operating Temperature & Humidity	Temp: -5°C to 50°C, Humidity: 25%–85% RH (non-condensing)
Storage Temperature & Humidity	Temp: -20°C to 50°C, Humidity: 25%–88% RH (non-condensing)
Weight	Approx. 0.6kg
Dimensions	90×94×150 mm
Certification	ROHS ISO9001



Model	Built-in Power	Output Voltage	Drive Method	Max Current per Channel	Number of Channels	Light Source Interface
PS-PDM65W-24-2	65W	24V	Constant Voltage	2A	2	SM-03V
PS-PDM65W-24-4	65W	24V	Constant Voltage	2A	4	SM-03V
PS-PDM120W-24-2	120W	24V	Constant Voltage	2.4A	2	SM-03V
PS-PDM120W-24-4	120W	24V	Constant Voltage	2.4A	4	SM-03V
PS-PDM200W-24-4	200W	24V	Constant Voltage	3A	4	SM-03V
PS-PDMI65W-24-2	65W	24V	Constant Current	1A	2	SM-03V
PS-PDMI65W-24-4	65W	24V	Constant Current	0.5A	4	SM-03V
PS-PDMII120W-24-2	120W	24V	Constant Current	2A	2	SM-03V
PS-PDMII120W-24-4	120W	24V	Constant Current	1A	4	SM-03V

CONTACT DETAILS

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