MEAN WELL

ULTRA DIMMING SMART CONTROL



SPWM SERIES

75W~240W Constant Voltage PWM Output LED Drivers

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As smart buildings and Human Centric Lighting (HCL) rapidly evolve, space design demands a higher standard of dimming quality for linear LED strips and indirect lighting. Traditional dimming solutions often suffer from issues such as low-level flickering, visible stepping, and complex protocol integration. To address these industry challenges, MEAN WELL proudly introduces the complete SPWM-75 / 150 / 240 Series of Constant Voltage PWM Output LED Drivers.

Covering three power levels— 75W, 150W, and 240W— the series integrates three major standards (DALI, KNX, and Matter) alongside 3-in-1 dimming across 30 total models. Built with industrial-grade reliability and specifically designed for low-voltage LED strips and flexible neon lights, the SPWM series combines high-frequency PWM technology, 0.1% ultra-deep dimming, and comprehensive smart control protocols. It eliminates pain points in low-light details and system integration, delivering a flawlessly smooth visual experience for any lighting project.

DOUBLE ISOLATION

Class II design delivers top-tier shock protection without a safety ground. Certified to global standards, it simplifies wiring for commercial and residential applications.

FULL-RANGE DIMMING

Supports 1– 4 channels with 0.1% ultra-deep dimming for seamless CCT and RGBW control. Features up to 20kHz selectable frequency for flicker-free, camera-ready lighting.

MULTI-PROTOCOL

30 models from 75W to 240W with Matter, DALI, KNX, and 3-in-1 dimming— providing highly flexible solutions from standalone setup to building automation.

SLIM DESIGN

The ultra-slim housing with push-in terminals fits seamlessly into narrow ceiling and aluminum slots— simplifying installation and streamlining on-site maintenance.

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Features

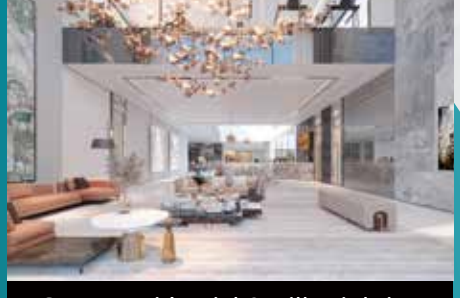
- **Power Range:** 75W / 150W / 240W
- **Input Voltage:** 100~305VAC(75W&150W)
  180~305VAC(240W)
- Constant Voltage PWM output, selectable 1~4 channel outputs
- Supports Dimming, CCT (Tunable White), and RGB/RGBW Color Control
- Plastic housing with double insulation and Class II design
- Compliant with IEEE 1789 and ErP flicker-free standards
- Standby Power Consumption: < 0.5W
- **Ultra-Deep Dimming:**
  Minimum dimming level down to 0.1%
- Compliant with Emergency Lighting (EL) requirements
- **Control Interfaces:** 3-in-1, DALI-2, KNX, Matter
- 5-year warranty

Specifications	SPWM-75	SPWM-150	SPWM-240
Rated Wattage	75W	150W	240W
Input Voltage	100~305VAC		180~305VAC
Output Voltage	12V, 24V		24V, 48V
-Blank : 3-in-1 Dimming	✓	✓	✓
-DA2 : DALI-2 /DT6 Dimming Control	✓	✓	✓
-DA2Q : DALI-2 /DT8 Dimming & Color Control	✓	✓	✓
-KN : KNX Dimming & Color Control	✓	✓	✓
-MA : Matter Dimming & Color Control	✓	✓	✓
Dimension (LxWxH)	290x 38x 28.5mm	340x 38x 28.5mm	380x 38x 28.5mm

Applications



Boutique Display Windows


Smart Residential & Villa Lighting


Luxury Hotel Ballrooms