Size (L*W*H)



Model No

HP200 IP67 Series

200W Waterproof 5 in 1 Dimmable LED Driver



Power

Features:

- Input Voltage: 200-240V
- Built in active PFC, typical power factor>0.95
- High efficiency: up to 88%
- Load: 0.01-100%
- IP67 Design, Flicker-free
- Protection: Short Circuit/Over Loading/Over Temperature
- Full protection metal case

Weight



Output Current

Output Voltage

HP200-24-67	200W	24V		8.33A	1.6kg	273.4*78*46mm
Input	Input Voltage:		220-240VAC			
	Input Frequency:		50/60Hz			
	Power Factor (Typ.):		@ full load 0.96@277VAC			
	THD (Typ.) @ full load		<20% @277VAC			
	Efficiency (Typ.) @ full load		24V 89% @ 277Vac			
	Inrush Current (Typ.)		30A, 50% 1.4ms @277VAC			
	Leakage Current		<0.50mA			
Output	DC Voltage		24V			
	Rated Current		8.33A			
	Rated Power		200W			
	Voltage Tolerance		±0.5V			
	Voltage Regulation		±0.5%			
	Load Regulation		±1%			
Protection	Short Circuit		Hiccup mode, recovers automatically after fault condition is removed			
	Over Loading		≤120%			
	Over temperature		100°C±10°C,Shut down o/p voltage, recover automatically after temperature goes down.			
Environment	Working TEMP.		-40~+60°C			
	Working Humidity		20~90%RH, non-condensing			
	Storage TEMP. Humidity		-40~+80°C, 10~95%RH			
	TEMP .co efficient		±0.03%/°C (0~50°C)			
	Vibration		10~500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes			
Safety & EMC	Withstand Voltage		I/P-O/P:1.88KVAC			
	Isolation Resistance		I/P-O/P:100MΩ/500VDC/25°/70%RH			
	EMC Emission		FCC Part 15 B			

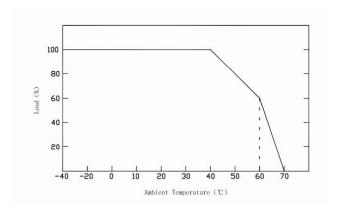


Product Advantages:

- Multiple Dimming Modes: Triac (Forward phase & reverse phase, MLV ELV dim) /0-10V/1-10V/10V PWM/ Potentiometer
- Switch to PWM or Voltage regulation output
- 100%-0.01% dimmable, stepless dimming, flicker-free
- Metal shell NEMA 4X for indoor and outdoor use
- Super low loading request, works perfect at 0.01-100% load
- No Vpeak-peak during driver on/off and dimming, no harm to the LED for long-term use and slow lumen depreciation

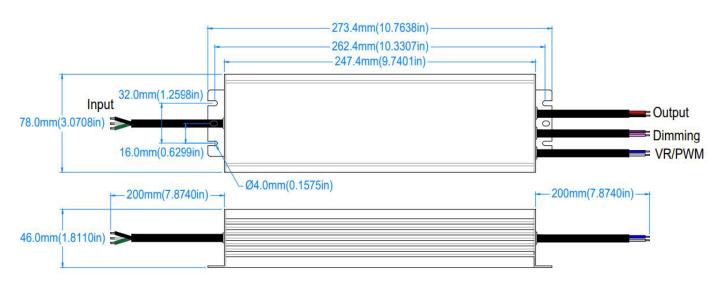
Derating Curve

To extend the life, please refer to the Derating Curve and derate according to the temperature.



Dimensions

Unit: mm Tolerance: 0.5-2mm



- Input wire Black and White to be connected to AC L and N, Green wire go ground,
- Output wire Red to LED Positive side (+), Black to LED Negative side (-).
- Dimming cable DIM (+) Purple to 0/1-10V dimmer signal(+),DIM (-) Pink to 0/1-10V dimmer signal (-)
- Switch output mode: The default output is VR mode, To switch the output to PWM, short connect the blue line and the white line
- Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.



■ Wiring Diagram for Triac/Phase cut dimming

- 1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through the input terminal of the AC phase line (L) by connection of a phase/Triac dimmer
- 2. Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, TRIAC dimmers
- 3. Please try to use dimmers with power at least 1.5 times as the output power of the driver

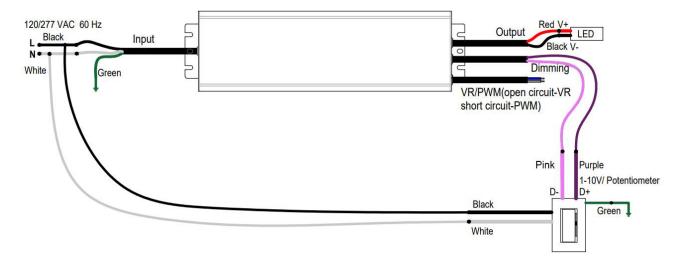
Using Triac MLV wiring diagram



Using Triac ELV wiring diagram

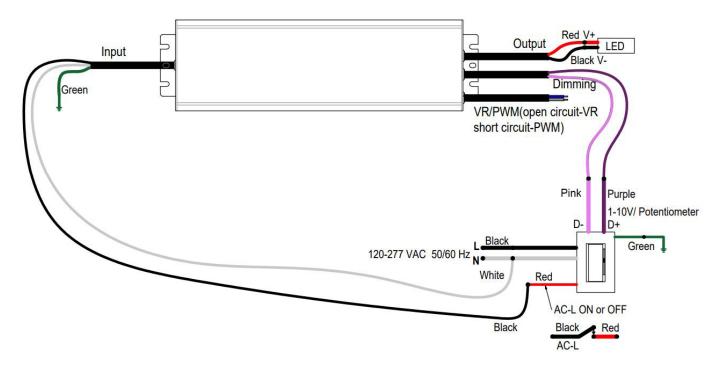


Using 0-10/1-10v wiring diagram (the power does not pass through the dimmer)

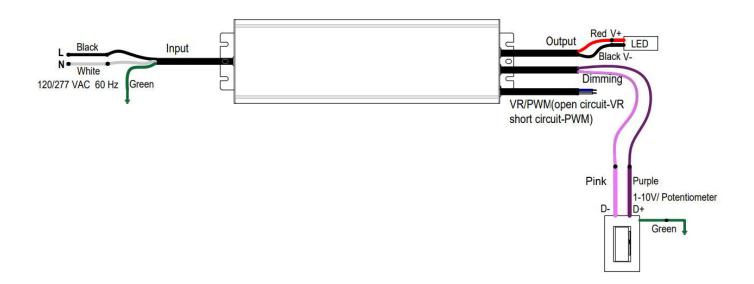




Using 0-10/1-10v wiring diagram (power supply through the dimmer switch)

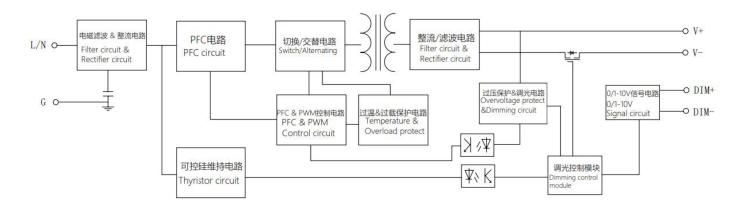


Using 0-10/1-10v wiring diagram (the dimmer is not connected to high voltage)

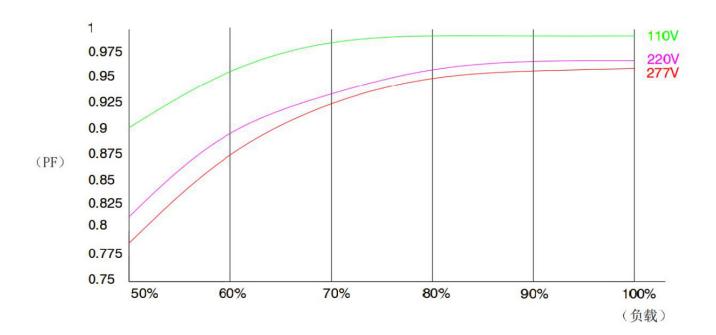




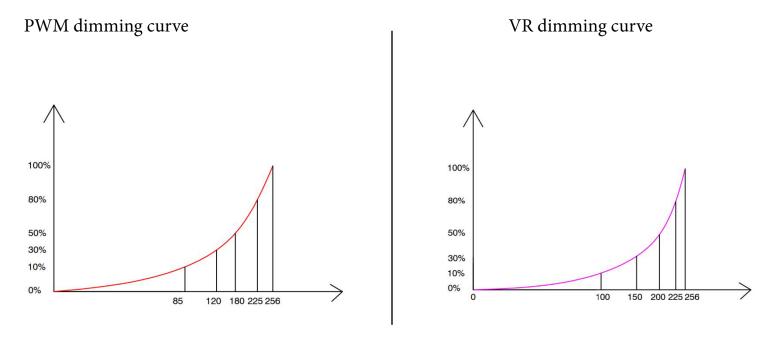
The Topology



PFC load graph







Instruction

- This driver should be installed by a qualified and professional person
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation
- Ensure the wiring is correct before testing in order to avoid light and power supply damage

Power supply operating temperature and life curve

