

IP67



FEATURES:

- NFC technology programmable without driver power on
- Constant power programmable design
- High efficiency (Max 92%), active power factor correction
- Ultra low THD at light load
- 0~10V/ PWM/ Timer, Dim to off option
- 12V/200mA AUX Output
- UL recognized with HL/ TL/Surge(Diff:4kV, Common:6kV)
- 5 year limited warranty

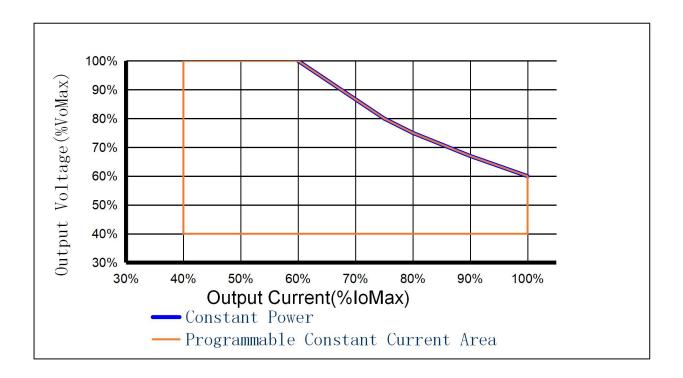
Electrical Specifications

Model:		MWP250CV	MWP250CV	MWP250CV	MWP250CV	MWP250CV			
		24-36F	36-48F	48-80F	80-140F	140-233F			
	Max Output Power	250W							
	Constant Power Output Voltage Range	24-36V	36-48V	48-80V	80-140V	140-233V			
	Constant Power Output Curent Range	6.9-10.4A	5.2-6.9A	3.2-5.2A	1.78-3.2A	1.07-1.78A			
	Programmable Constant Current Region	4.1-10.4A	2.7-6.9A	2.0-5.2 A	1.2-3.2 A	1.0-1.78 A			
	Open load Voltage	I.05Vp(Vp:Programmable Output Voltage)							
Output	Line Regulation	±0.5%							
	Load Regulation	±3%							
	Ripple & Noise Pk-Pk	3%Vo							
	Eff.@ 115Vac & 100%load	90%	91%	91%	91%	91%			
	Eff.@ 230Vac & 100%load	91%	92%	92%	92%	92%			
	Turn-On Delay Time	<0.8S(100Vac,100%Load)							
	Dimming	0-10V(0%-100%)							
	Temperature Coefficient Of loset	0.05%/°C							
	Auxiliary output	12V/200mA							
	AC Current Max	2.78A Max. @100Vac							
	Rated Input Voltage Range	100-277Vac							
	Input Voltage Range	90-305Vac							
	Frequency Range	50/60Hz							
Input	Power Factor(PF)	PF>0.97 (Vin 230Vac 100%load),PF>0.95(Vin277Vac 70%load)							
	THD	<20% (100-277Vac,50-100%Load)							
	Standby Power	0.4W(Measured at 230Vac,Dimming off)							
	Inrush Current Max	65A @230Vac Ta=25°C							
	Leakage Current	<0.75mA @ 277Vac							
Protection	Short Circuit Protection (SCP)	In the event of a short circuit condition, there will be no damage to the driver, then automatic self-recovery will be activated.							
	Surge Protection	Line to Line: 4KV, Line to Earth: 6KV							
	Over Temperature Protection	When the Inter	nal PCB temp read	thes 105°C (±5°C)	, to avoid any dam	age to the drive			
		its outp	ut will be turned o	ff.After the tempe	rature drops belo	w 105°C,			

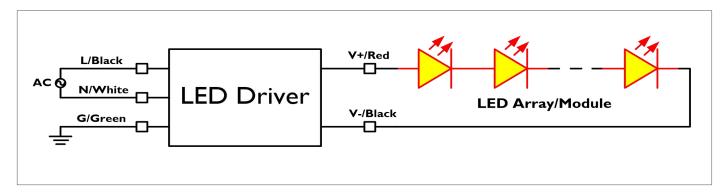
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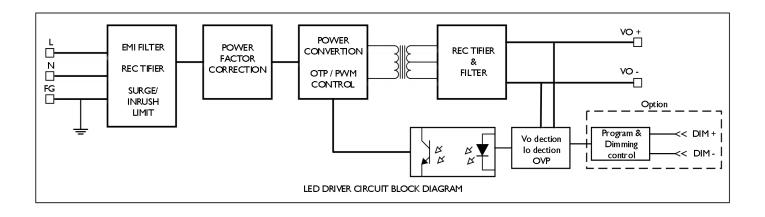
		automatic self-recovery mode will be activated.					
Environment	Ambient Temperature	Ta :-40∼+70°C; Tc (max):≦ 90°C					
	Operating Humidity	20∼90% RH					
	Storage Temperature & Humidity	-40∼+80°C, 10∼95% RH					
	Environment Protection Rating	UL Dry, Damp or Wet Location, IP67					
	Vibration	10∼500Hz 5G 12Min/Cycle, X,Y,Z axis per 72 minute					
Safety & EMC	Cafata Canada ada	IEC/EN61347-1(GB19510-1-2009), IEC/EN61347-2-13(GB 19510.14-2009), UL8750,					
	Safety Standards	CSA C22.2 NO. 250.13-12					
	Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.5KVac,O/P-FG:0.5KVac					
	Insulation Resistance	I/P-O/P, > 100M Ohms/500VDC/25°C/70%RH					
	EMI	EN55015, FCC PART15-CLASSB					
	Harmonic Current	EN61000-3-2 Class C					
	EMS	EN61000-4-2,3,4,5,6,8,11;ENV50204,EN61547,EN55024 Industry standard					
Others	MTBF	>250kHrs to MIL-HDBK-217 at25°C,GB					
	Dimensions	215*85*39.5mm (L*W*H), 8.46*3.45*1.56in (L*W*H)					
	Weight	I235± I0g,20pcs/carton					

V-I Operating Area

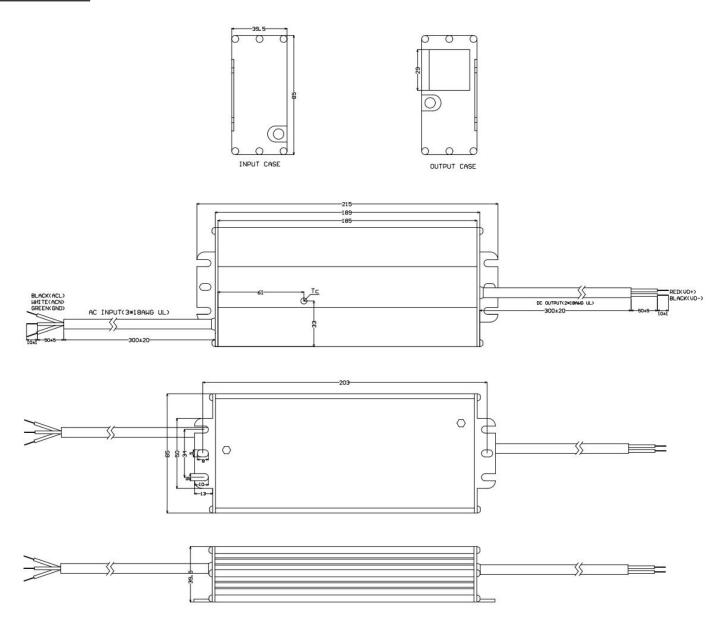


Wiring Diagram





Enclosure



Installation & Application Notes

Section I – Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure.
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.
- 1.3 Input and output use lead-wires. Lead-wires are UL SJTW Cable 18AWG 105C/600V solid copper.
- 1.4 Special water proof should be used on the input/output cable, this product is non-potting, water maybe suck in the product.

Section II - Performance

- 2.1 LED Driver has a minimum operating ambient temperature of -40°C.
- 2.2 LED Driver is certified by UL for use in a dry, damp or wet location.
- 2.3 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.4 LED Driver maximum allowable case temperature is 90°C .
- 2.5 LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.

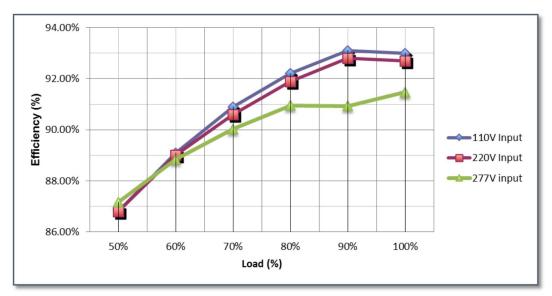
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Section III - Cautions

- 3.1 LED Driver should be kept away from heat source and flammable and explosive substances.
- 3.2 LED Driver Should be installed in a ventilated and good heat dissipation space.
- 3.3 High Voltage! Do not open the case without experience.
- 3.4 Make sure I/P, O/P wire joints completely watertight, to prevent electric shock & leakage of electricity.

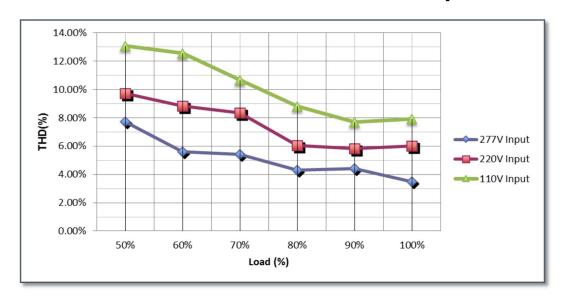
Efficiency

MWP250CV36-48F Efficiency vs Output



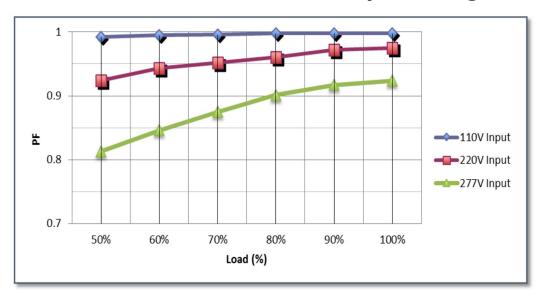
THD

MWP250CV36-48FTHD vs Output

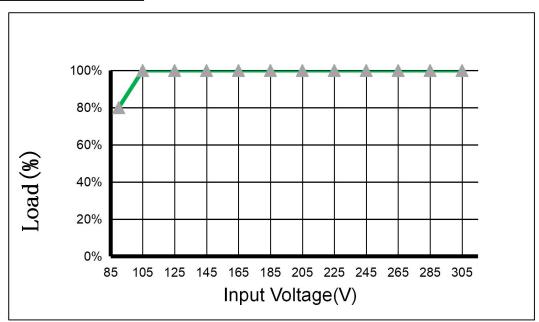


Power Factor

MWP250CV36-48F PF vs Input Voltage

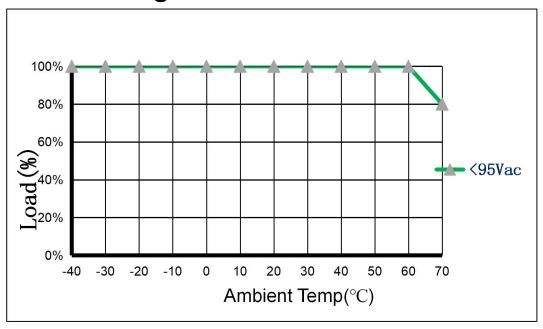


Static Characteristics



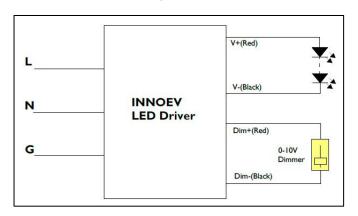
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Output Power Derating



0-10V Dimming Application (Optional Function)

0-10V Dimming



	0%	0.8 0 1 0% 10%	2 20%	3	4	5 50%	6	7	8	9 90%	10	vdim PWM Dut
	20%	- 37		1		1					1.	
lo/lr	40%					1				Ŧ		
1	60%	-+	-	+		- -		-		+-		
	80%	+				7					+-	
	100%	-		-	-	+	-	-	+	1	•	

GND Grey Dimming wire 0-10V&PWM Purple **12V AUX** Yellow **Input Dimming Voltage** 0-10V **DIM+ Source Current** 0-1mA **12V AUX Source Current** 200mA 0.5 ~ 3 KHZ **PWM Frenquency Range PWM** high level 10V

NOTE:

- lo is actual output current and Ir is rated current without dimming control.
- 2. For the driver to operate properly, the load voltage must be in the working voltage voltage range.
- 3. We have DIM-TO-OFF option can be programmed by the programmer.
- 4. Maximum input voltage at dimming wire is 12V.
- 5. AUX wire is only for source, can't connect to other voltage source.

Revision History

DATE	REV	Modification	ication		Reasons for c	Notes	
Prepared By		Checked By			Approved By		File Number
Date		Date			Date		

Application and operation performance specification information subject to change without notification.