



PYJD-TDW Series 200W

TRIAC Dimmable LED Driver - Constant Voltage Output



Features

Output:	Constant Voltage
Range:	110-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 90%
Protections:	Short circuit / Over load / Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Driver built in junction box, for dry, damp & wet locations.
Dimming function:	Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers.
Dimming range:	0.1-100%
Application:	Suitable for the application of LED lighting
Warranty:	2 years warranty
Others:	PWM output, High power factor PF>0.9, flicker-free dimming



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TRIAC Dimmable LED Driver - Constant Voltage Output Specification

Model		PYJD-12200-TDW	PYJD-24200-TDW	PYJD-48200-TDW
Certificate		(12V/24V): UL / cUL / FCC / Class P / TYPE HL / SELV / ROHS / REACH (48V): /		
Output	DCVoltage	12V	24V	48V
	VoltageTolerance	±0.5V		±1V
	VoltageRegulation	±0.5%		
	Ratedcurrent	16.6A	8.33A	4.17A
	Ratedpower	200W		
	LoadRegulation	±2%	±1%	±1%
Input	VoltageRange	110-277VAC		
	FrequencyRange	50/60Hz		
	PowerFactor@fullload	>0.9		
	THD(Typ.)@fullload	<20%@120VAC&277VAC		
	Efficiency(Typ.)@fullload	≥86%@120VAC ≥88%@277VAC	≥88%@120VAC ≥90%@277VAC	≥88%@120VAC ≥90%@277VAC
	ACCurrent(Max.)	2.3A		
	InrushCurrent(Typ.)	40A,570us@50%120VAC 65.6A,560us@50%277VAC		
	Leakagecurrent	<0.5mA		
Protection	ShortCircuit	12V/24V: Shut down o/p voltage, re-power on to recover after fault condition removed. Or, hiccupmode,recoversautomaticallyafterfaultconditionisremoved. 48V: Hiccup mode, recovers automatically after fault condition is removed.		
	Over Load	105%~120% 12V/24V: Shut down o/p voltage, re-power on to recover after fault condition removed. 48V: Hiccup mode, recovers automatically after fault condition is removed.		
	Overtemperature	Shellsurfacetemp.100°C±10°Cshutdowno/pvoltage,automaticallyrecoveraftercooling.		
Environment	WorkingTEMP.	-40~+60°C(seebelowderatingcurve)		
	WorkingHumidity	20-95%RH non-condensing		
	StorageTEM.,Humidity	-40-+80°C,10-95%RHnon-condensing		
	TEMP.coefficient	±0.03%/°C(0-50°C)		
	Vibration	10~500Hz,5G12min./1cycle,periodfor72min.eachalongX,Y,Zaxes		
Safety & EMC	Safetystandards	UL8750; CAN/CSA-C22.2No.250.13		
	Withstandvoltage	I/P-O/P:1.88KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC		
	Isolationresistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH		
	EMCImmunity	FCC/ICESdonotrequestthistest.		
	EMCEmission	FCCPart15SubpartB; ANSIC63.4-2014		
Others	NetWeight	1.82KG		
	Dimension	260.6*106*49mm(L*W*H)		
	Packing	320*295*240mm 10pcs/CTN		
Notes	<ol style="list-style-type: none"> AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25°Cofambienttemperature. Tolerance:includesetuptoleranceandloadregulation. 			



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MCB recommendation

When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCBType	Level	The number of LED Driver
Ctype	10A	4
	13A	5
	16A	6
	20A	8
	25A	9
When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCBType	Level	The number of LED Driver
Ctype	10A	3
	13A	4
	16A	5
	20A	6
	25A	7

Note:

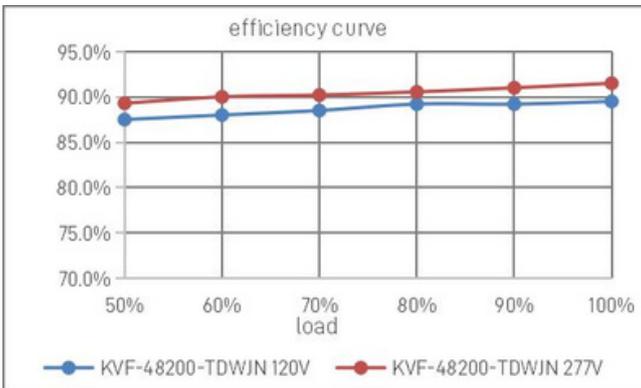
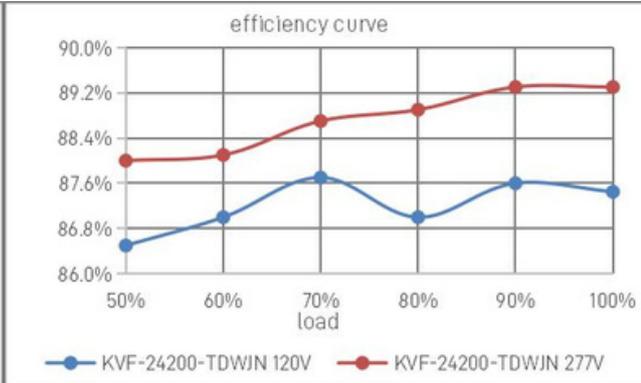
1. The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is
2. 50 °C. The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.



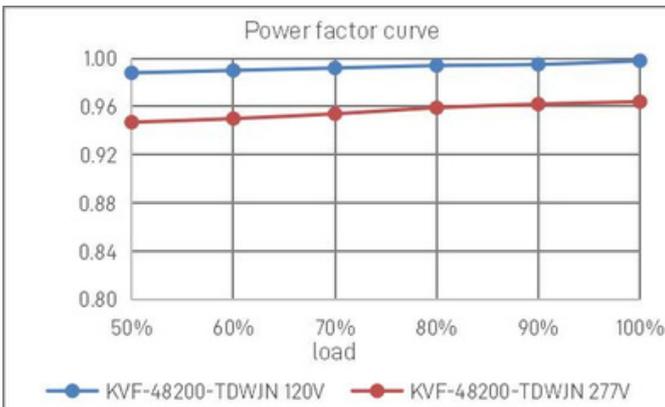
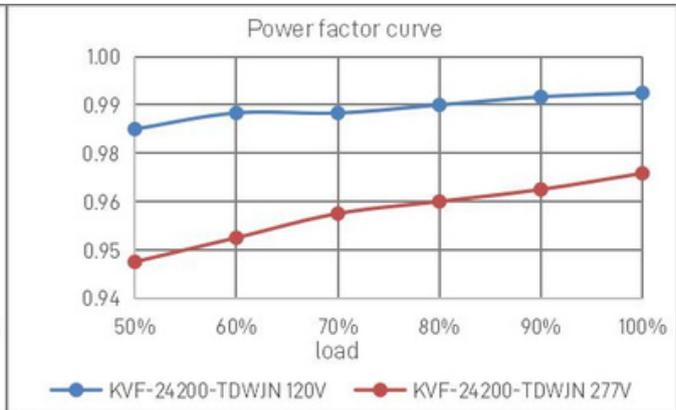
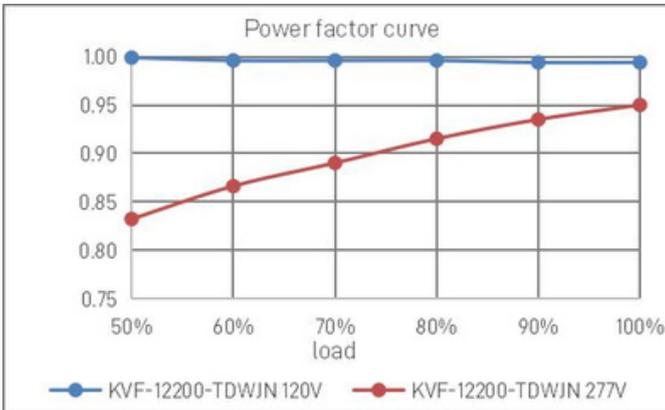


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TRIAC Dimmable LED Driver - Constant Voltage Output Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)

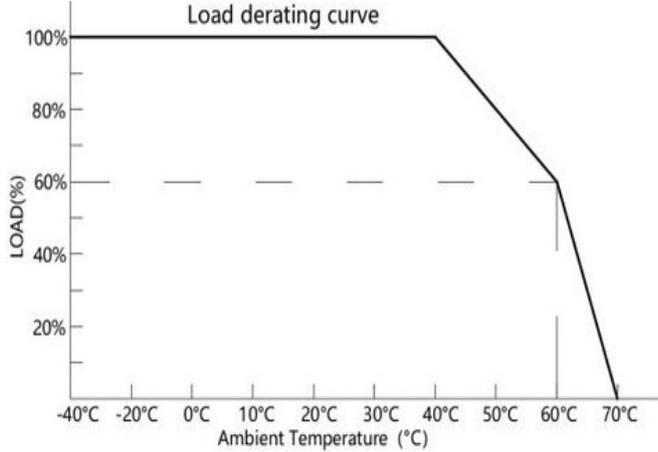




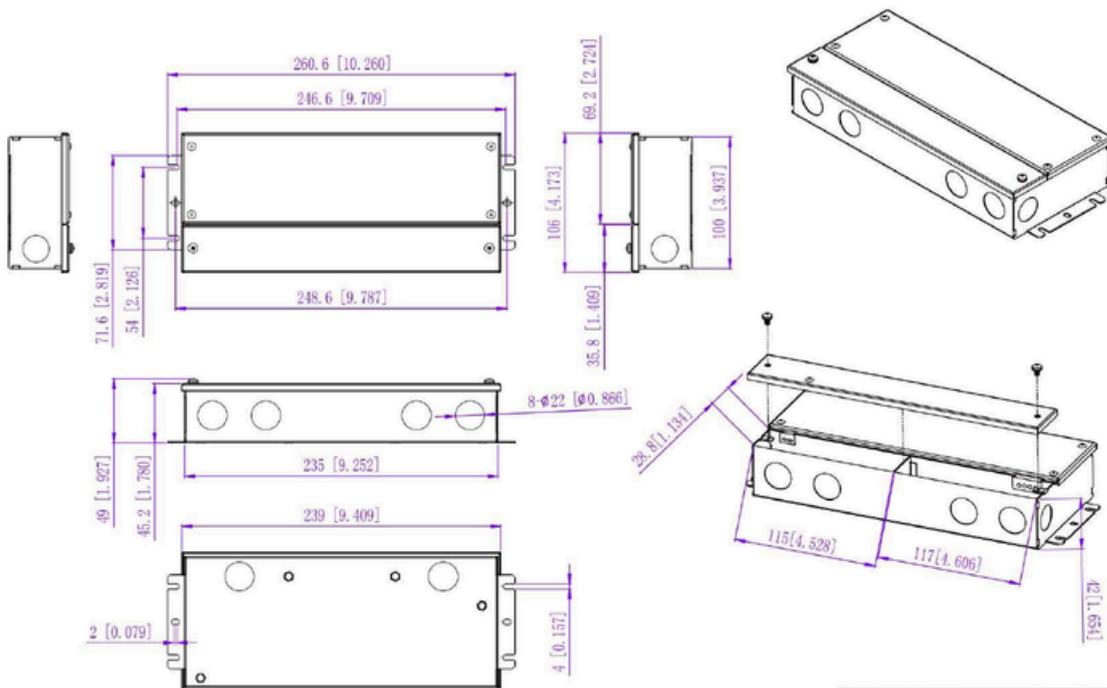
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Derating Curve (output load vs TEMP.)



- To extend their life, please refer to the Derating Curve and derate according to the temperature.
- Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading .



American wire gauge	
JM96 -A1	
Inputwire	Black(L)White(N)Green(G)(3*18AWG)
Outputwire	Red(V+)Black(V-)(2*14AWG)
Remarks: Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.	

Warm tips:

- Recommended Max. Carrying Current (A) = wire diameter(mm²) x 10A/mm²
For example: 1mm² output cable, Recommended Max. Carrying Current (A) = 1mm² x 10A/mm²=10A

