PYJD-TDW Series 600W

Phase cut /Triac dimmable driver-PWM output 600W

Features

Output:	Constant Voltage
Range:	110-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 93.5%
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. Phase dimming : work with
Dimming function:	Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers.
Dimming range:	0-100% dimmingdepth0.1%
Min load:	Min load is 10%.
Application:	Suitable for the application of LED lighting
Warranty:	2 years warranty
Others:	PWM output, High power factor PF>0.95, Flicker-free dimming

PYJD-TDW Series 600W

Specification

Model		**PYJD-24600-TDW**
Certificate		UL / FCC / ICES-005 / Class P / TYPE HL / SELV / ROHS / REACH
Output	DCVoltage	24V
	VoltageTolerance	±0.5V
	VoltageRegulation	≤0.5%
	Ratedcurrent	25A
	Ratedpower	600W
	LoadRegulation	≤1%
Input	VoltageRange	110～277VAC
	FrequencyRange	50/60Hz
	Power Factor (Typ.)@ full load	>0.95
	THD(Typ.)@fullload	≤10%@120VAC@fullload
	Efficiency(Typ.)@fullload	90.3%@120VAC; 93.45%@277VAC
	Standbypower	＜0.5W@120VAC
	ACCurrent(Max.)	5.97A
	InrushCurrent(Typ.)	52A,810us@50%Ipeak110VAC 76A,148us@50%Ipeak277VAC
	Leakagecurrent	<0.5mA
Protection	ShortCircuit	Hiccupmode,recoversautomaticallyafterfaultconditionisremoved.
	OverLoad	105%~120%Hiccupmode,recoversautomaticallyafterfaultconditionisremoved.
	Overtemperature	100℃±10℃shutdowno/pvoltage,automaticallyrecoveraftercooling.
Environment	WorkingTEMP.	-40~+40℃(seebelowderatingcurve)
	WorkingHumidity	20-95%RH non-condensing
	StorageTEM.,Humidity	-40-+80℃,10-95%RHnon-condensing
	TEMP.coefficient	±0.03%/℃(0-50℃)
	Vibration	10~500Hz,5G10min./1cycle,periodfor60min.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℃/70%RH
	EMCImmunity	FCC/ICESdonotrequestthistest.
	EMCEmission	FCCPart15SubpartB; ANSIC63.4a-2017; ICES-005Issue5
Others	NetWeight	2.8KG
	Dimension	280*140.2*50.2mm(L*W*H)
	Packing	342*285*170mm 5pcs/CTN
Notes	1. AllparametersNOTspeciallymentionedaremeasuredatratedloadand25℃ofambienttemperature. 2. Tolerance:includessetuptoleranceandloadregulation.	

PYJD-TDW Series 600W

MCB recommendation

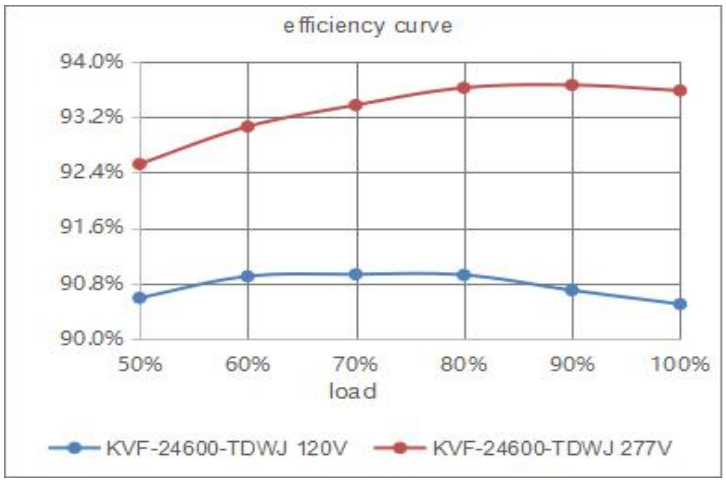
When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCBType	Level	ThenumberofLEDDriver
Ctype	10A	1
	13A	2
	16A	2
	20A	3
	25A	4
When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCBType	Level	ThenumberofLEDDriver
Ctype	10A	3
	13A	4
	16A	5
	20A	7
	25A	8

Note:

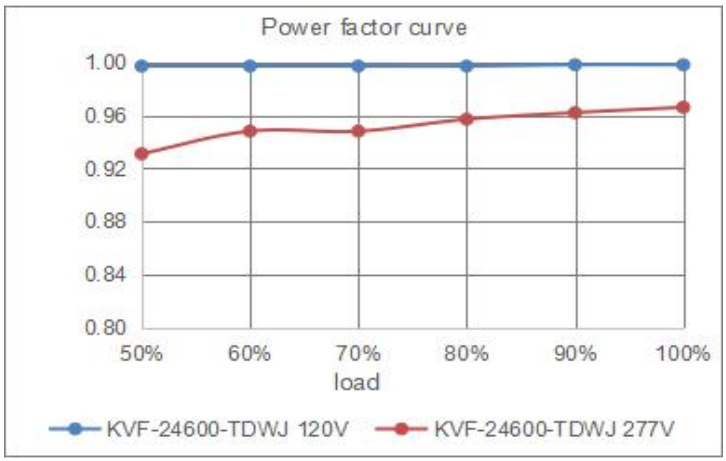
1. The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is 50 °C.
2. The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.

PYJD-TDW Series 600W

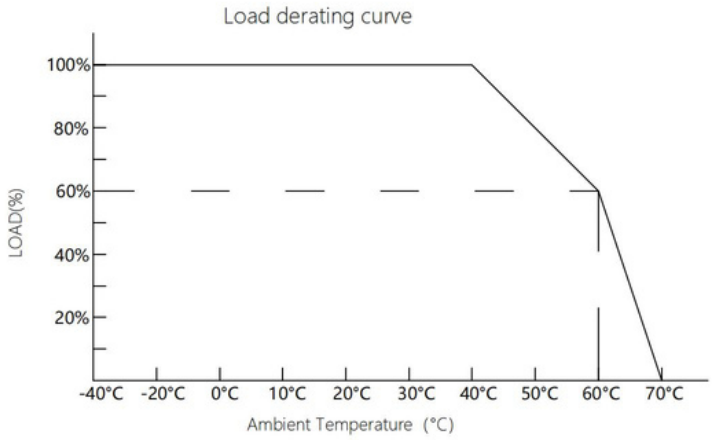
Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)



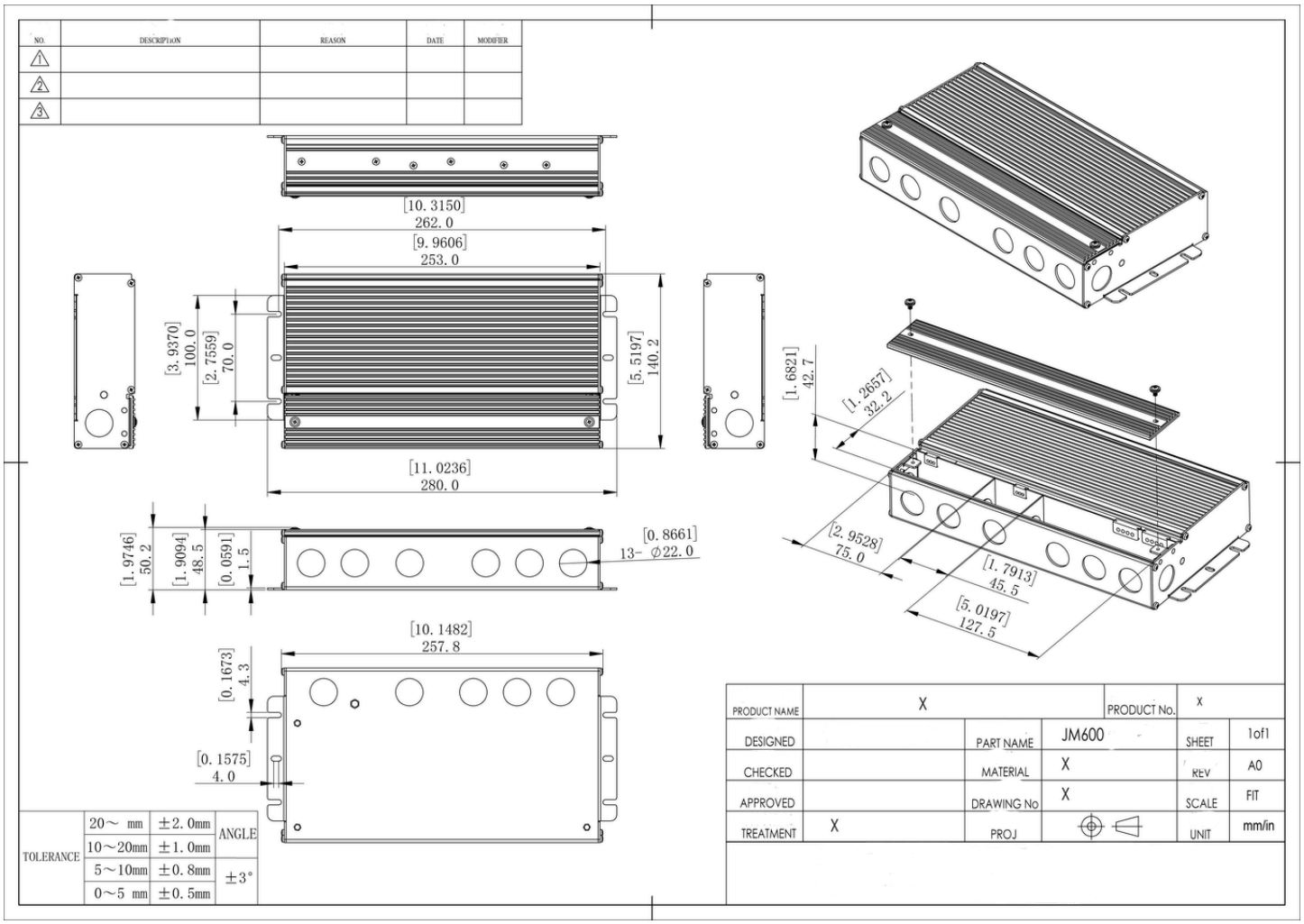
Derating Curve (output load vs TEMP.)



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

PYJD-TDW Series 600W

Mechanical Specification



American wire gauge	
JM600	
Inputwire	Black(L)White(N)Green(G)(3*18AWG)
Outputwire	Red(V+)Black(V-)(2*14AWG)*2
Remarks: Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.	

Warm tips:

1. Recommended Max. Carrying Current (A) = wire diameter(mm²) x 10A/mm ² For example: 1mm ² output cable, Recommended Max. Carrying Current (A) = 1mm ² x 10A/mm ²=10A requests for

PYJD-TDW Series 600W

Dimming Operation and Connecting Diagram

Using one dimming ---TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with forward phase /leading edge, MLV and Reverse phase /trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

Instructions

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.