PowerFactor™ Non-Dimmable Driver with UL Listed Junction Box

AL-98-12-24288-MT



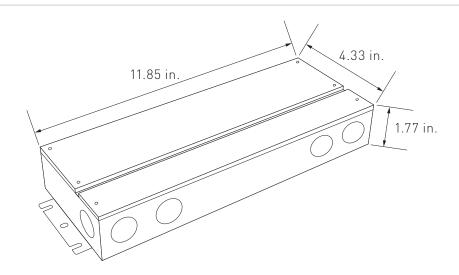
PowerFactor™ Non-Dimmable Drivers with integrated UL Listed junction box supply reliable, efficient low voltage power to white tape light on an on/off switch, or RGB and RGB-W color controllers (which have on-board dimming functionality). Although non-dimmable drivers are compatible with AC on/off switches, they are not dimmable with AC dimmer switches.

- High power factor for high efficiency
- Flat and compact housing is easy to conceal
- >90% power factor
- Dry or wet environment
- 6 year warranty

QUICK SPECIFICATIONS

Input	120V~ 277V	120~277V AC
Features	>90% CLASS POWER FACTOR 2	>90% Power Factor Class 2
Environment	DRY LOCATION O	Dry/wet environment Dust tight and protected against high seas and jets of water
Certifications	CUL US ROHS NEMA	UL Listed RoHS NEMA 4X
Warranty	(BRAND) EARS	6 year limited

DIMENSIONS



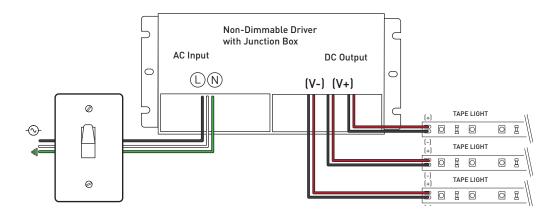
ALLOY L = D° Specifications

TECHNICAL INFORMATION

Voltage Tolerance	Item Number		AL-98-12-24288-MT
Current per Channel	Output	DC Voltage ¹	24V DC
Wattage per Channel 96W (288W total)		Number of Channels	3
Voltage Regulation		Current per Channel	4A (12A total)
Voltage Regulation		Wattage per Channel	96W (288W total)
Load Regulation		Voltage Tolerance	±0.5V
Voltage Range² Frequency Range Frequency Range PowerFactor @ Full Load O.99 @ 120VAC; 0.95 @ 277VAC THD (Typ.) @ Full Load Efficiency (Avg.) AC Current (Maximum) Inrush Current (Typ.) Leakage Current Overload Overload Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed Overload Overload Over Temperature Working Temperature Working Humidity Storage Temperature, Humidity Temperature Coefficient Vibration Vibration Vibration Working Standards Vibration V		Voltage Regulation	±0.5%
Frequency Range PowerFactor @ Full Load PowerFactor @ PowerFactor @ PowerFactor Power Powe		Load Regulation	±1%
PowerFactor @ Full Load O.99 @ 120VAC; 0.95 @ 277VAC THD (Typ.) @ Full Load Efficiency (Avg.) AC Current (Maximum) Inrush Current (Typ.) Leakage Current Shut down o/p voltage, re-power on to recover after fault condition removed Overload Over Temperature Over Temperature Working Temperature Working Humidity Storage Temperature, Humidity Temperature Coefficient Vibration Safety Standards With stand Vibration O.99 @ 120VAC; 0.95 @ 277VAC A20% A20% A20% A20% A34 (100VAC) A35A,50%,960us @120VAC; 43A,50%,1ms @ 277VAC A20,50mA Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed A20% A20	lanus.	Voltage Range ²	100 - 277V AC
THD (Typ.) @ Full Load Efficiency (Avg.) AC Current (Maximum) Inrush Current (Typ.) Leakage Current Short Circuit Overload Overload Over Temperature Working Temperature Working Humidity Storage Temperature , Humidity Temperature Coefficient Vibration Safety Standards With stand Values and safe size of the safe s		Frequency Range	47~63HZ
Efficiency (Avg.) AC Current (Maximum) Inrush Current (Typ.) Leakage Current Short Circuit Overload Over Temperature Working Humidity Storage Temperature , Humidity Temperature Coefficient Vibration Efficiency (Avg.) 88% @ 120V; 92% @ 277VAC 3.4A (100VAC) 3.5A,50%,960us @120VAC; 43A,50%,1ms @ 277VAC 40.50mA Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed 2120% shut down o/p voltage, re-power on to recover 100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling Working Temperature 40°C~+60°C (-40°F~+140°F) Working Humidity 20~90% RH, non-condensing 40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards With the red Violence		PowerFactor @ Full Load	0.99 @ 120VAC ; 0.95 @ 277VAC
Efficiency (Avg.) AC Current (Maximum) Inrush Current (Typ.) Leakage Current Short Circuit Overload Over Temperature Working Temperature Storage Temperature , Humidity Temperature Coefficient Storage Temperature , Humidity Temperature Coefficient Safety Standards With tata d Volks are Efficiency (Avg.) 88% @ 120V; 92% @ 277VAC 3.4A (100VAC) 40.50 MA 40.50 MA 40.50 MA 40.50 MA 40.50 MA 40.50 MA 40.60 MA 4		THD (Typ.) @ Full Load	<20%
Inrush Current (Typ.) Leakage Current Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed Overload Over Temperature Working Temperature Working Humidity Storage Temperature, Humidity Temperature Coefficient Temperature Coefficient Safety Standards Withstand Valters and Valters are with the standards Value Carpower on to recover on to recove	iliput	Efficiency (Avg.)	88% @ 120V ; 92% @ 277VAC
Leakage Current Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed Overload Over Temperature 100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling Working Temperature -40°C~+60°C (-40°F~+140°F) Working Humidity 20~90% RH, non-condensing Storage Temperature, Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		AC Current (Maximum)	3.4A (100VAC)
Short Circuit Shut down o/p voltage, re-power on to recover after fault condition removed overload over Temperature Vorking Temperature Working Humidity Storage Temperature, Humidity Temperature Coefficient Vibration Safety Standards Shut down o/p voltage, re-power on to recover 100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling -40°C~+60°C (-40°F~+140°F) Working Temperature -40°C~+60°C (-40°F~+140°F) Vorking Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes		Inrush Current (Typ.)	35A ,50%,960us @120VAC ; 43A,50%,1ms @ 277VAC
Over Temperature Over Temperature Over Temperature Over Temperature Over Temperature Over Temperature 100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling Working Temperature -40°C~+60°C (-40°F~+140°F) Working Humidity 20~90% RH, non-condensing Storage Temperature , Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		Leakage Current	<0.50mA
Over Temperature 100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling Working Temperature -40°C~+60°C (-40°F~+140°F) Working Humidity 20~90% RH, non-condensing Storage Temperature , Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310	Protection	Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition removed
Working Temperature -40°C~+60°C (-40°F~+140°F) Working Humidity 20~90% RH, non-condensing Storage Temperature , Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		Overload	≤120% shut down o/p voltage, re-power on to recover
Working Humidity 20~90% RH, non-condensing Storage Temperature , Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		Over Temperature	100°C±10°C (212°±50°F) shut down o/p voltage, automatically recover after cooling
Storage Temperature , Humidity -40°C~+80°C, -40°F~176°F / 10~95%RH Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310	Environment	Working Temperature	-40°C~+60°C (-40°F~+140°F)
Temperature Coefficient ±0.03%/°C (0~50°C, 32~122°F) Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		Working Humidity	20~90% RH, non-condensing
Vibration 10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes Safety Standards UL8750+UL1310		Storage Temperature , Humidity	-40°C~+80°C, -40°F~176°F / 10~95%RH
Safety Standards UL8750+UL1310		Temperature Coefficient	±0.03%/°C (0~50°C, 32~122°F)
With stand Valle re		Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes
With stand Valle as	Safety and EMC	Safety Standards	UL8750+UL1310
afety and Withstand Voltage 1/P-0/P. 1.88KV AC		Withstand Voltage	I/P-O/P: 1.88KV AC
		Isolation Resistance	I/P-0/P:>100MΩ/500V DC/25°C, 77°F/70% RH
EMC Emission Compliance to FCC 47 CFR Part 15 ,Subpart B		EMC Emission	Compliance to FCC 47 CFR Part 15 ,Subpart B
Warranty 6 year limited	Other	Warranty	6 year limited
Dimensions (L x W x H) 11.85 x 4.33 x 1.77 inches		Dimensions (L x W x H)	11.85 x 4.33 x 1.77 inches

^{1.} All parameters NOT specially mentioned are measured at 120V AC input, rated load and 25°C, 77°F of ambient temperture 2. Derating may be needed under low input voltage. Please check the static characteristics for more details 3. The unit might not be suitable for lighting applications in EU countries. Avoid immersion in water over 30 minutes

WIRING DIAGRAMS



TROUBLESHOOTING

- Q: Why are the lights connected to the driver blinking roughly once a second?
- A: The driver may be overloaded. Check to make sure the maximum wattage is not being exceeded. There could also be a possibility of incompatible voltage. Confirm that the driver and tape light voltage match.
- Q: How do I determine the compatibility?
- A: Check the voltage, wattage, load capacity of both the tape light and driver.
- Q: Is it possible to have multiple runs of tape light that are daisy-chained together connect to a driver with 1 lead wire?
- A: Yes, but only if the total length of consecutive runs do not exceed the tape light's maximum run and also does not exceed the driver's maximum wattage.