POWER SOURCE

AC Input DMX512 Dimmable LED Driver

DMX-150 series

Features:

- Constant Voltage adjusted with NFC (see below)
- AC Input Range: 100~277VAC
- Protections: Short Circuit/Over Load/Over temperature
- IP66 Design for outdoor installation
- Single colour or RGB+CCT models
- DMX512 and RDM Dimming
- Factory fitted flex and AU Plug
- 5 year warranty

DMX RDM RoHS IP66 SELV CB

Model		DMX-150-24	DMX-150-24-RGBCW
Output	DC Voltage (V)	24V (24~26V adjustable by NFC)	
	Voltage Tolerance	±0.5V (See Note 2.)	
	Voltage Regulation	0.5%	
	Rated Current	1 x 6.25A	R+G+B+CW+WW= 6.25A
	Rated Power	150W	
	Load Regulation	1%	2%
Input	Voltage Range	100~277VAC	
	Frequency Range	47~63Hz	
	Power Factor	PF≥0.98/230VAC PF≥0.95/277VAC	
	THD(Typ.) @ Full load	≤10% @ 120VAC ≤15% @ 277VAC NOTE: Regarding LED driver load types where the drive meets the harmonic emissions requirements of ANSI C82.77-10	
	Efficiency	90.5% @120VAC 92.5% @ 277VAC	92%@120VAC 93.5%@277VAC
	AC Current (Max.)	1.7A	
	Inrush Current	53.7A, 47us@50%120VAC, 124A, 108us@50%277VAC	
	Leakage Current	<0.5mA	
Protection	Short Circuit	Hiccup mode, re-power on to recover after fault condition removed	
	Over Load	≤120% Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	Shell surface temp. 100°C± 10°C shut down o/p voltage, automatically recovers after cooling	
Environment	Working Temp.	-40 ~ +60°C (refer to de-rating curve)	
	Working humidity	20~95%RH, non-condensing	
	Storage TEMP., humidity	-40~+80°C,10~95%RH	
	TEMP. coefficient	±0.03%/°C (0~50°C)	
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min, each along X, Y, Z axes	
Safety & EMC	Safety Standards	EN61347-1 EN61347-2-13	
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	EMC emissions (Note 3.)	EN55015, EN61000-3-2-3	
Others	NET Weight.	1.00KG	
	Dimensions	279*78*25.1mm (L*W*H)	
	Packing	330*300*215mm 20PCS/CTN	
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: Includes set up tolerance and load regulation. 3. The power supply is considered as a component that is operated in combination with final equipment. EMC performance could be affected by the complete installation. Original equipment manufacturers may need to conduct additional EMC testing and certification on the final equipment. 4. Loading range from 10% to 100% 5. Specifications are subject to change without prior notice. Contact ADM Systems to confirm any critical parameters.		

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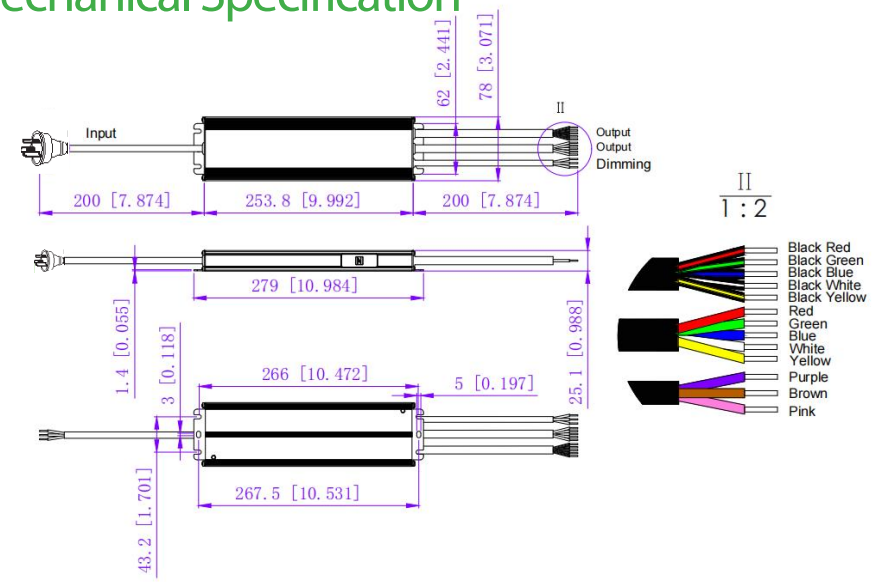
Mechanical Specification

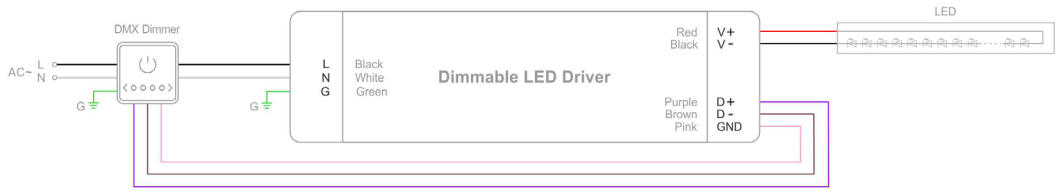


- Output cable SJOW 5*18AWG, Black (V+) cable (+) to LED Positive side (+) , Red (R-) ,Green(G-) ,Blue (B-) , White (C-),Yellow(W-) cable (-) to LED Negative side (-).
- Dimming cable SJOW 3*18AWG, Purple D+, Brown D- and Pink GND connect to DMX dimmer positive, negative and ground.

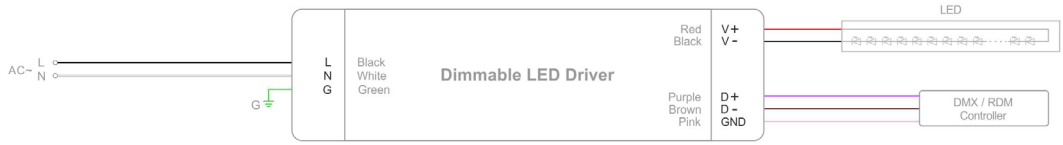
Dimming Operation and Connection Diagram

- DMX-150-24-AUP

DMX512 - 1 Channel

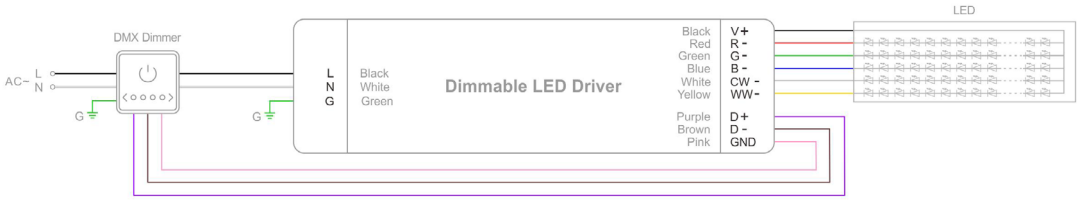


DMX512 - 1 Channel

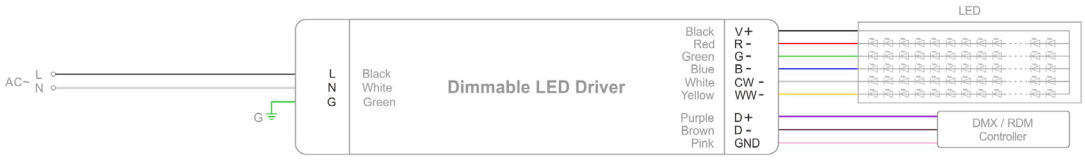


- DMX-150-24-RGBCW-AUP

DMX512 - 5 Channel



DMX512 - 5 Channel



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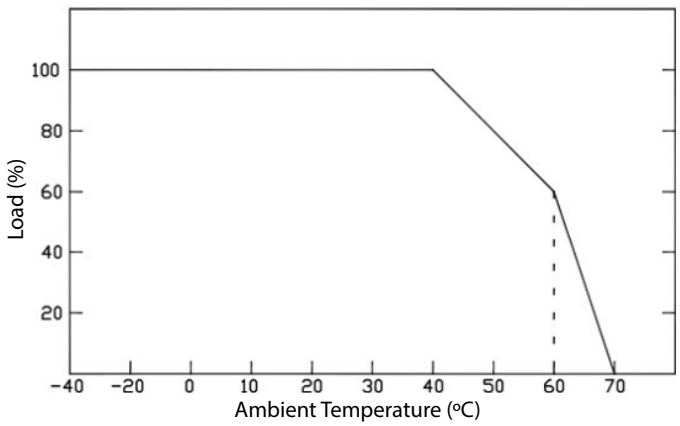
De-rating Curve



- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a premature failure, which is not covered by the warranty.

1) This LED driver should be installed by a qualified electrician.
2) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
3) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.

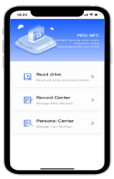
NFC Function

DMX512 address setting Operation
1. The default address for SC DMX driver is 001.
2. Address settings device:

Set the address using the RDM device. For detailed instructions, please refer to the RDM device's manual.

NFC setting address can be adjusted using a mobile device with the ProNFC app.

RDM

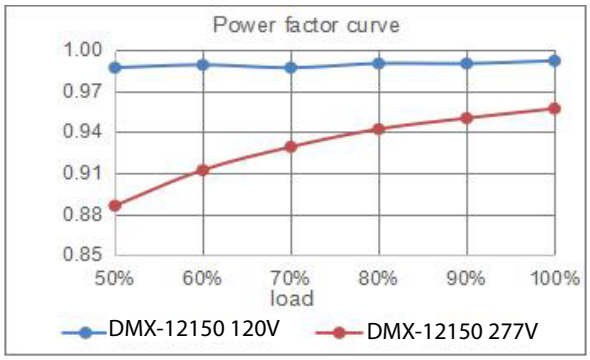


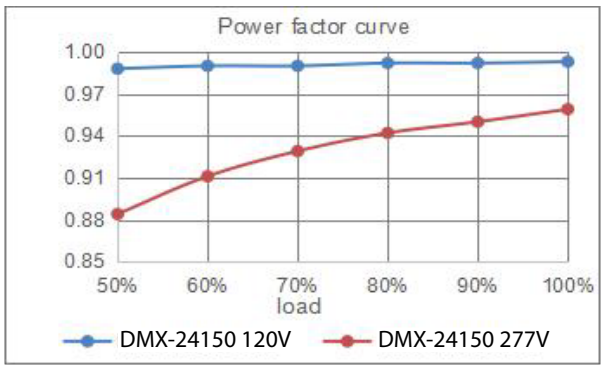
ProNFC APP

NFC Voltage Adjustment

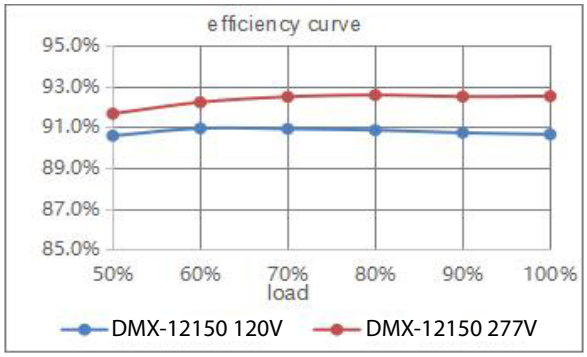
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
24V	24V	24.2V	24.4V	24.7V	24.9V	25.1V	25.3V	25.6V	25.8V	26.0V

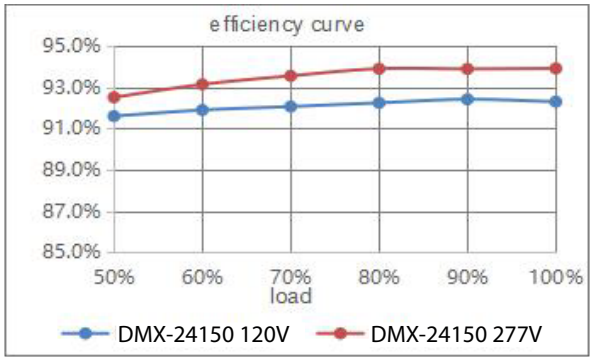
Power Factor Curve





Efficiency Curve





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