

Main Features:



- Input Voltage: 90~305Vac or 127~420Vdc
- Output Wattage: Constant Wattage (C.P.) at **150W** with Adjustable Current Setting
- Programmable Method: Wire
- High Efficiency: Up to **90%**
- Dimming Function: **0-10V**
- Lightning Protection: Built-in Surge Protector at 6KV/3KA
- Reliability Protection: OVP, SCP, OTP
- Safety Regulation: Complies with UL8750 & EN61347
- Waterproof Rating: **IP65**
- Five Year Warranty under Normal Usage Conditions



SPECIFICATION

Model No. ⁽ⁱ⁾	Output Voltage Range	Programmable Output Constant Current Range	OVP	OTP	Case Temperature
	(Vdc)	(mA) ⁽ⁱ⁾	(Vdc max.)	(°C) ⁽ⁱⁱ⁾	(Tc)
LDDS150-143P1050-U-V	86-214	700 - 1050	120% V _o max, typ.	Tc ≥ 105 ± 10°C	90C
LDDS150-100P1500-U-V	64-143	1050 - 1500	120% V _o max, typ.	Tc ≥ 105 ± 10°C	90C
LDDS150-071P2100-U-V	43-107	1400 - 2100	120% V _o max, typ.	Tc ≥ 105 ± 10°C	90C
LDDS150-038P3800-U-V	24-58	2600 - 3800	120% V _o max, typ.	Tc ≥ 105 ± 10°C	90C
LDDS150-024P6300-U-V	14-38	4000 - 6300	120% V _o max, typ.	Tc ≥ 105 ± 10°C	90C
Note	(i) Pre-set Constant Current Value with dimming				
	(ii) Lower the output current when Tc ≥ 105 ± 10°C; Auto Recovery When Tc ≤ 70 ± 10°C				

Input Spec.	Condition Description	Min.	Normal	Max.	Units
Input Voltage Range	Universal Input	90	100-277	305	VAC
Input Frequency Range		47	50/60	63	Hz
Input Current	110 VAC/220 VAC input, full load output			1.4/0.75	A
Power Factor	At 100 VAC/220 VAC input		> 0.9		
Inrush Current	At 230 VAC input, 25°C cold start / At 277 VAC input, 25°C cold start			65 / 70	A
Leakage Current	max @277Vac 60Hz			0.001	A
Surge Protection	Line to line 4kV, line to ground 10kV, IEC 61000-4-5				

Output Spec.	Condition Description	Min.	Normal	Max.	Units
Current Accuracy			±5		%
Ripple Current	At 100%-60% Load. The result differs according to different LED load characteristic.			5	% Ip-p (Io)
Overshoot/Undershoot	% of Iout max & LED load			10	%
Turn-On Delay	Measured at 110 VAC/220 VAC input and Full Load			1.2	S

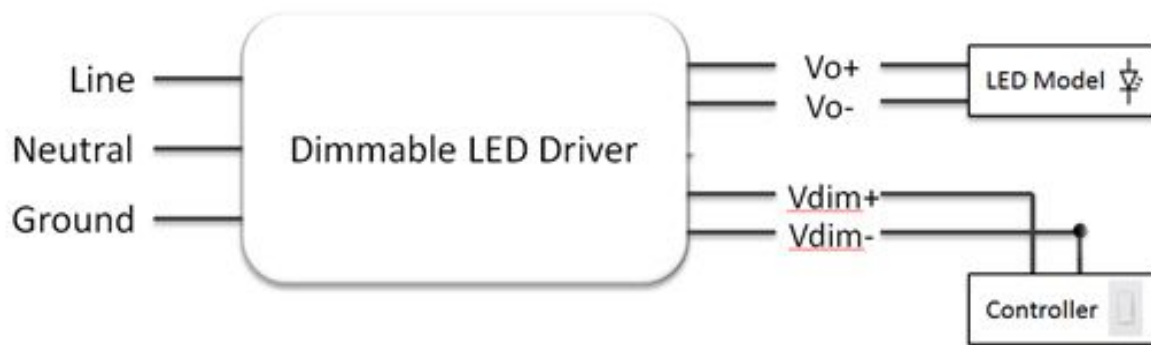
General Spec.	Condition Description	Min.	Normal	Max.	Units
Efficiency	Measured at full load and 220Vac in the thermal balanced condition.		92	93	%
MTBF	measured at Tc= 75°C (MIL-HDBK-217F)		≥320,000		Hours
Lifetime	measured at Tc= 75°C		≥ 80,000		Hours
Operating/Storage Temperature	10%RH~100%RH (See De-rating Curve for more details)	-40/-40		70/85	°C
Dimension (OL/L x W x H)	OL is the overall length with mounting plates	242/213 x 43.3 x 30.0			mm
		9.53/8.39 x 1.71 x 1.18			inch
Weight	Net weight without package	1.32/0.60			lb/kg

Safety & EMC Compliance	Category	Condition Description
Safety Regulations	UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products
	UL1012	Power Unit Other Than Class 2
	IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements
	IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear for LED Modules
	CE	Europe: EN 61347-1, EN61347-2-13
EMI Standards	IEC 55015	Conducted emission test & Radiated emission test
	IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)
	IEC 61000-3-3	Voltage fluctuations & flicker
	FCC Part 15	ANSI C63.4:2009 Class B
EMS Standards	IEC 61000-4-2	Electrostatic discharge (ESD) 8 kV air discharge, 4 kV contact discharge
	IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
	IEC 61000-4-4	Electrical fast transient (EFT)
	IEC 61000-4-5	Surge immunity test
	IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
	IEC 61000-4-8	Power frequency magnetic field test
	IEC 61000-4-11	Voltage dips
	IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

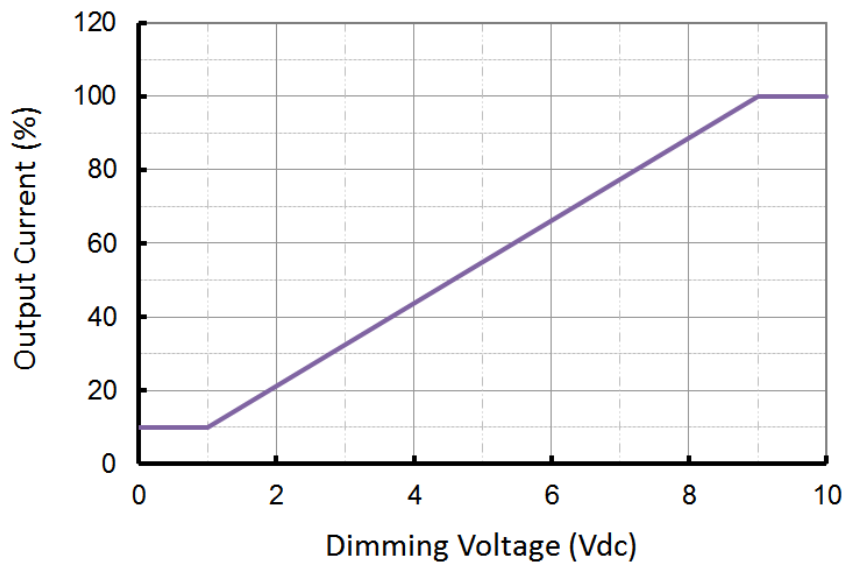
■ Dimming Curve

Parameter	Min.	Typ.	Max.
Vdim Sourcing Current	200uA	300uA	450uA
Vdim Allowed Input Voltage	-20 V		20 V
0-10V Dimming Range	10% (Vdim=1V)	Linear	100% (Vdim=9~10V)

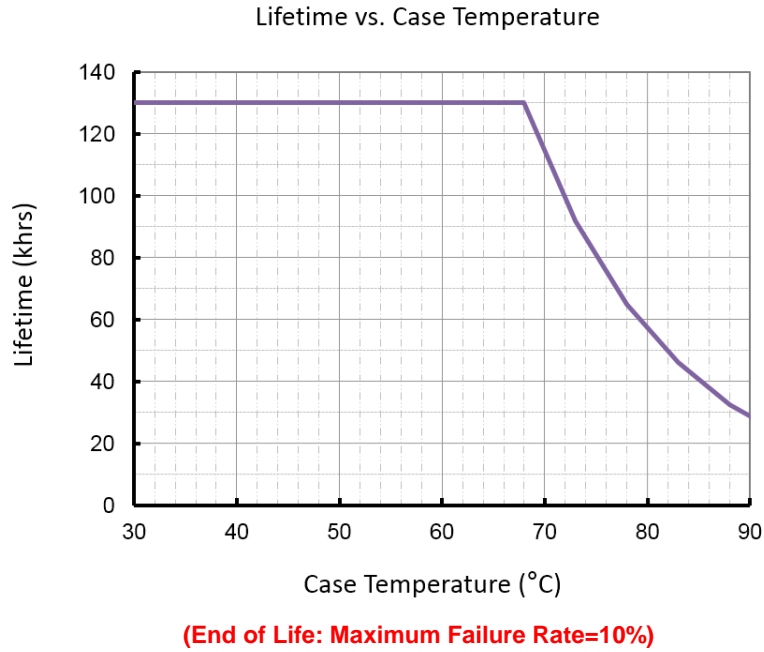
Dimming Wire



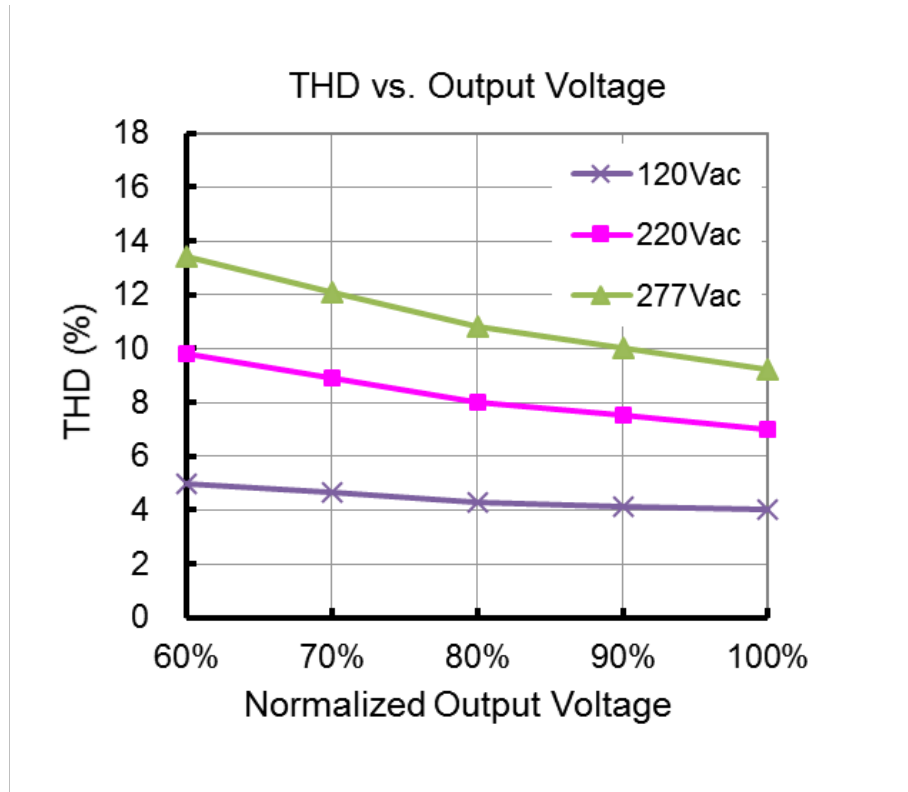
0-10V Dimming Curve



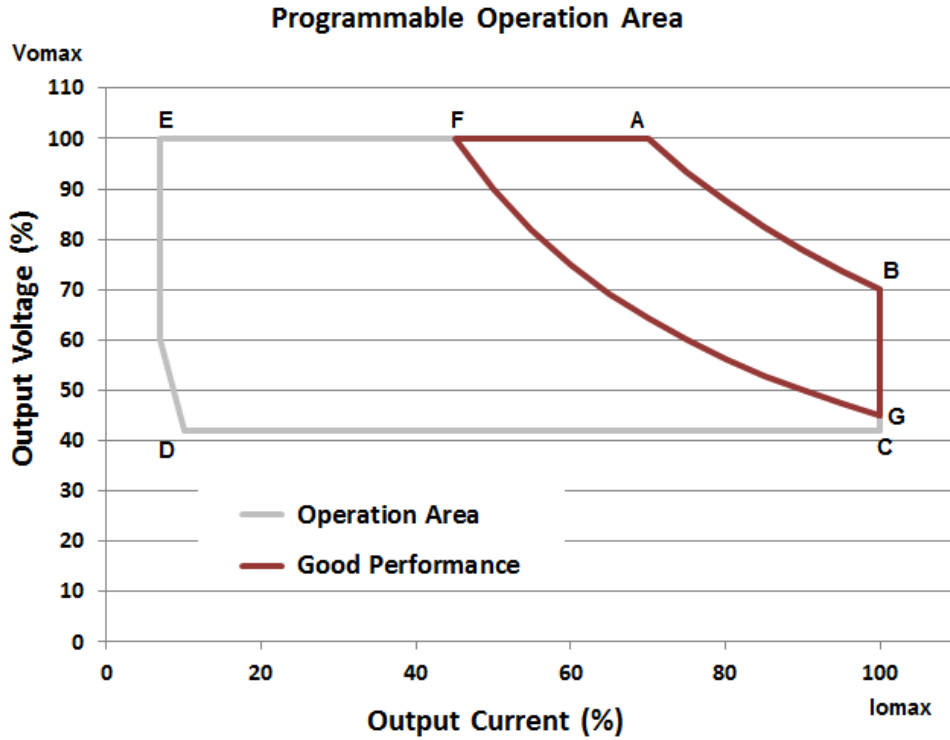
■ Lifetime vs. Case Temperature



■ THD vs. Load



■ Current vs. Voltage Curve



I_o (mA) V_o (V)	B I_{max}	A V_{max}	F (60% of I at A) (as V_{max})	G (as I_{max}) (60% of V at B)	C (as I_{max}) $V_{min} =$ (60% of V at B)	D (10% of I_{max}) (60% of V at B)	E (10% of I at A) (as V_{max})
LDDS150-143P1050-U-V	1050 143	700 214	420 214	1050 86	1050 86	105 86	70 214
LDDS150-100P1500-U-V	1500 100	1050 143	630 143	1500 60	1500 60	150 60	105 143
LDDS150-071P2100-U-V	2100 71	1400 107	840 107	2100 43	2100 43	210 43	140 107
LDDS150-038P3800-U-V	3800 38	2600 58	1560 58	3800 23	3800 23	380 23	260 58
LDDS150-024P6300-U-V	6300 24	4000 38	2400 38	6300 14	6300 14	630 14	400 38
On BA Curve Line	Constant Power Area						
Within BAFG Box	Good Performance Area						
Within ABCDE Box	Operational Area						

■ Mechanical Outline (Unit: mm)

Note: Dimensions in millimeters, where 25.4 mm = 1 inch

Tolerance: ± 0.51 mm

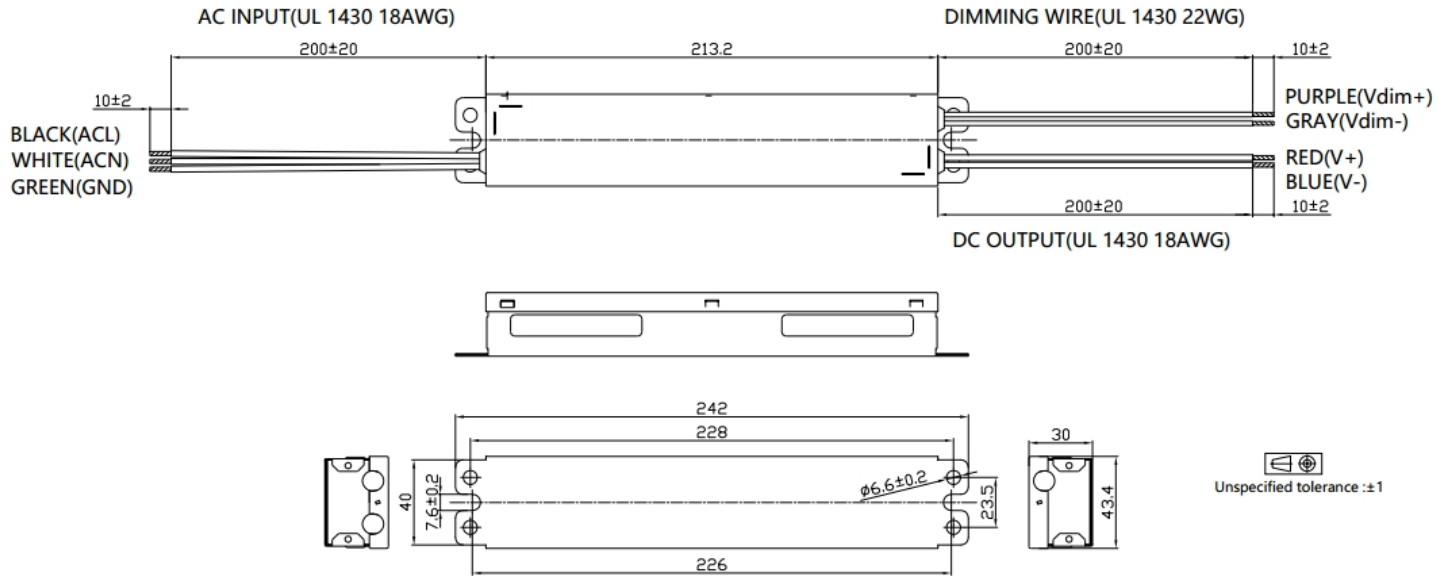


Figure 28, MR8MW

Safety Note: Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.

Revision

Date	Rev.	Description of Change		
		Item	Old	New
1/25/2018	V2a	In Draft Release	/	/
2/22/2018		Add real product photo		
3/19/2018	V2b	Change image of machine outline for updated lead wires	Length in 300±20 mm	200±20 mm