



**Features:**

- AC Input Range: 100~277VAC
- Constant Voltage with PWM Output
- Push Dimming function
- Protections: Short Circuit, Over Load, Over Temperature
- Class I Power Supply
- IP66 design for outdoor installation
- Factory fitted flex and AU Plug
- DALI-2 Protocol IEC 62386

Model		DDV-20-12	DDV-20-24
Output	DC Voltage (V)	12V	24V
	Voltage Tolerance	±3%	
	Voltage Regulation	≤0.5%	
	Rated Current	1.67A	0.83A
	Rated Power	20W	
	Load Regulation	≤2%	
	Voltage Ripple	160mVp-p	
	Overshoot voltage	<1% (full load), <2% (no load)	
Input	Voltage Range	100~277VAC	
	Frequency Range	50/60Hz	
	Power Factor @ Full load	>0.90	
	THD (Typ.) @ Full load	≤10%@120VAC ≤10%@230VAC ≤10%@277VAC	
	Efficiency @ full load	>81.00%@120VAC >81.00%@230VAC >80.00%@277VAC	>84.00%@120VAC >84.00%@230VAC >83.00%@277VAC
	AC Current (Max.)	0.28mA	
	Inrush Current	1.94A,35us @50%lpeak 120VAC 3.76A,36us @50%lpeak 230VAC 4.52A,34us @50%lpeak 277VAC	
	Leakage Current	<0.5mA	
Protection	Short circuit	Hiccup mode, automatically recovers after fault condition is removed	
	Over loading	105%~120% Hiccup mode, recover automatically after fault condition is removed	
	Over Temperature	When the ambient temperature exceeds 50°C ±5°C, the output is turned off	
Environment	Working TEMP.	-40 ~ +50°C (refer to de-rating curve)	
	Working humidity	20-95%RH, non-condensing	
	Storage TEMP, humidity	-40~+80°C,10-95%RH non-condensing	
	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:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (EU) I/P-O/P:1.88KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC (US)	
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH	
	EMC immunity	EN61000-4-2,3,4,5,6,11; EN61547	
	EMC emissions	EN55015; EN61000-3-2,3	
Others	Net. weight	0.45kg	
	Size	155.4*44.2*21mm (L*W*H)	
	Packing	350*245*205mm outside carton 30PCS /CTN	
Notes	<ol style="list-style-type: none"> <li>1. Unless otherwise specified, all specifications are measured at 120V input, rated load, and 25°C ambient temperature.</li> <li>2. In the case of low input voltage, derated output should be used to ensure a long service life.</li> <li>3. Regarding LED driver load types where the driver meets the harmonic emissions requirements of ANSI C82.77-10.</li> </ol>		

## MCB Recommendation

When the input voltage is 120VAC, the number of LED Driver matched by circuit breakers is as follows:

MCB Type	Level	The Number of LED Driver
C Type	10A	22
	13A	29
	16A	36
	20A	45

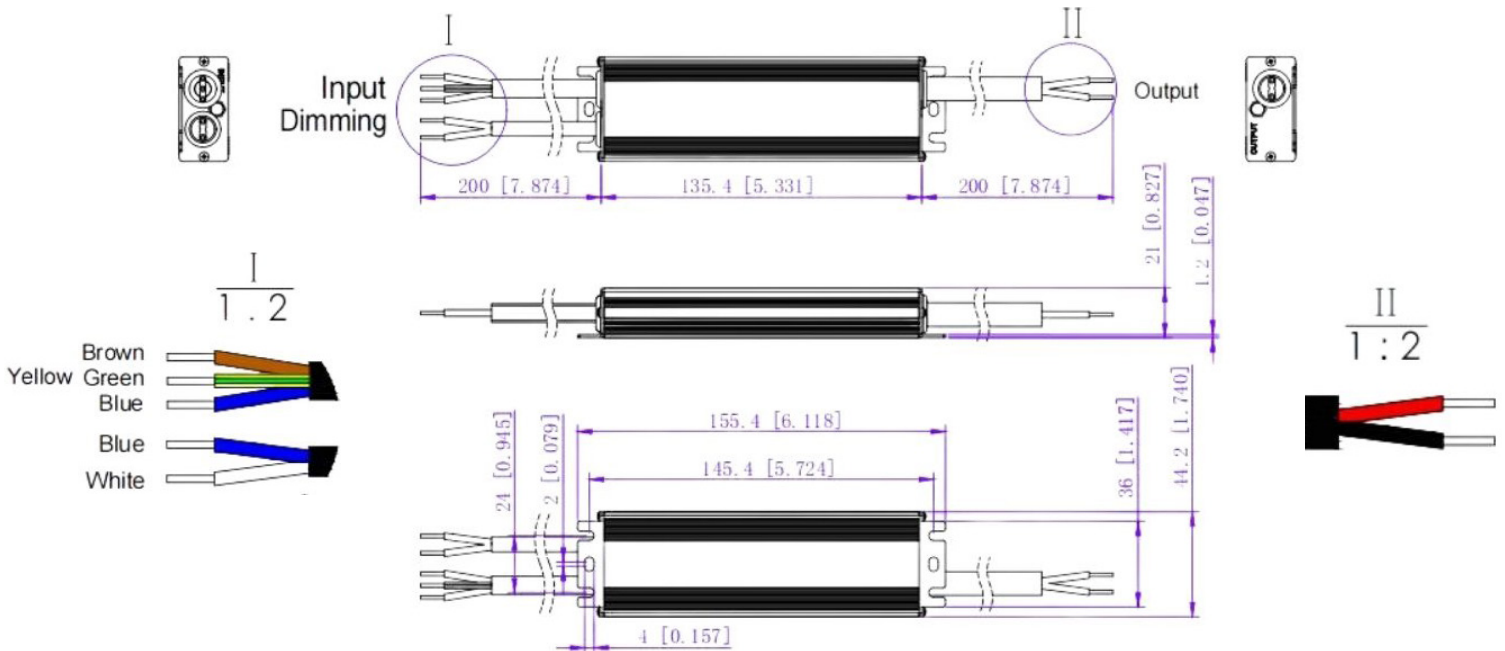
When the input voltage is 230VAC, the number of LED Driver matched by circuit breakers is as follows:

MCB Type	Level	The Number of LED Driver
C Type	10A	43
	13A	56
	16A	69
	20A	86

When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:

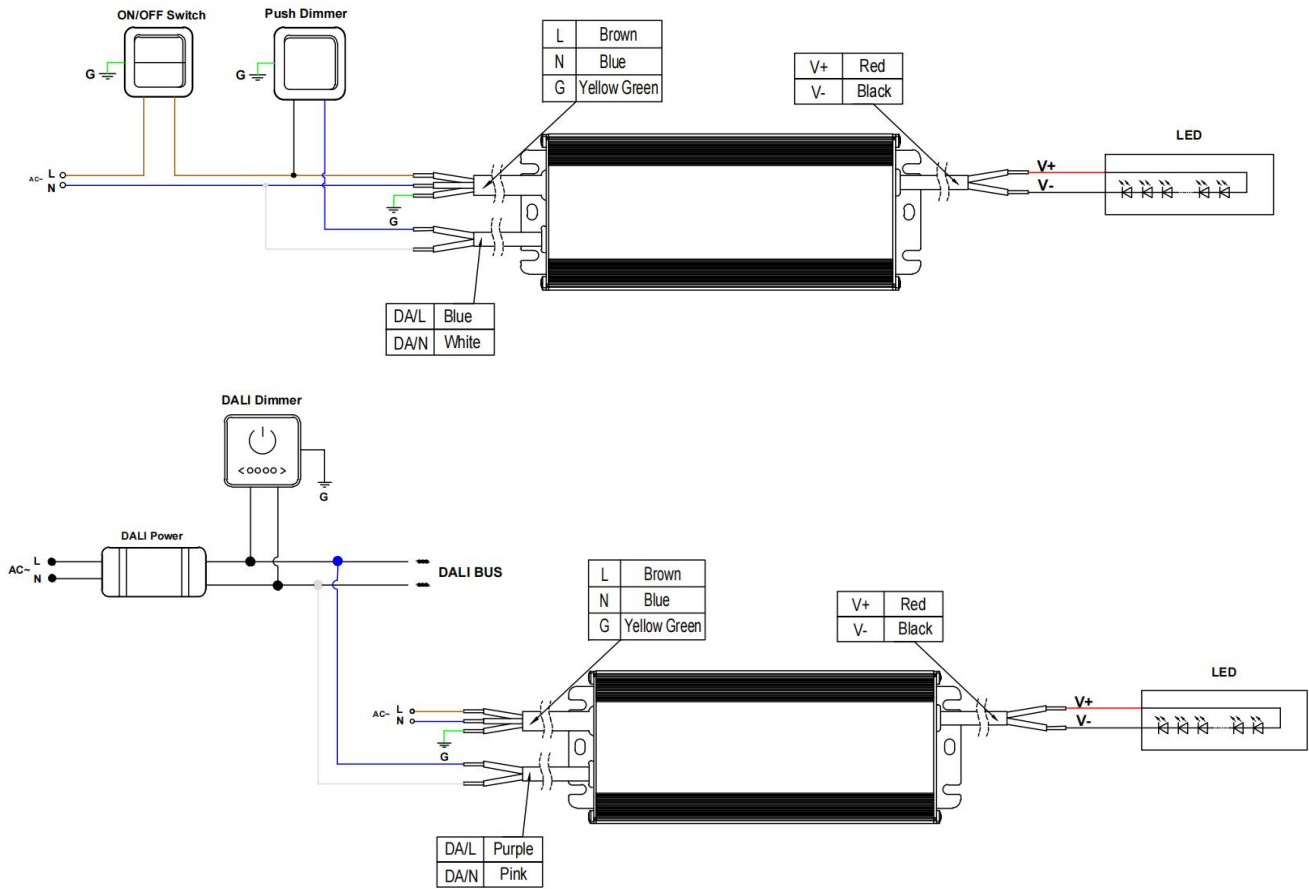
MCB Type	Level	The Number of LED Driver
C Type	10A	51
	13A	66
	16A	82
	20A	102

## Mechanical Specifications



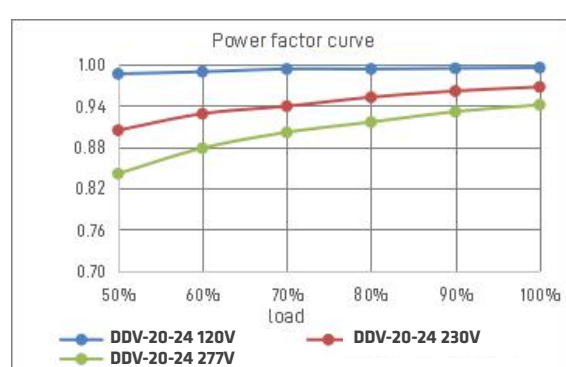
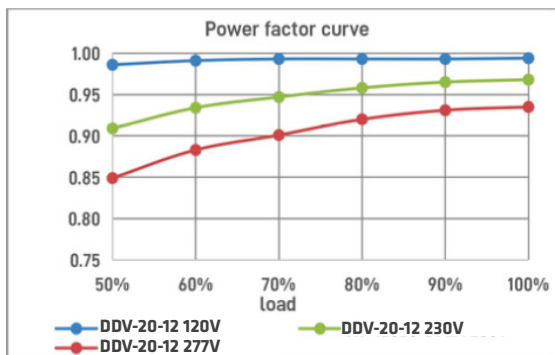
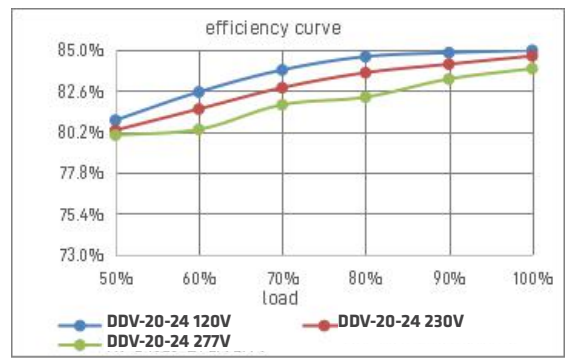
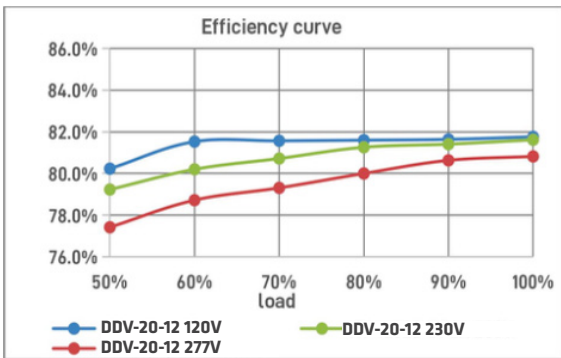
- Input: 1m AU Flex and Plug.
- Output: Rubber Cable 2\*10.75mm<sup>2</sup> Red: (V Positive), Black: (V-Negative)
- Dimming: Rubber Cable 2\*1.00mm<sup>2</sup> Blue: DA/L, White DA/N (Non-

**Connection Diagram**



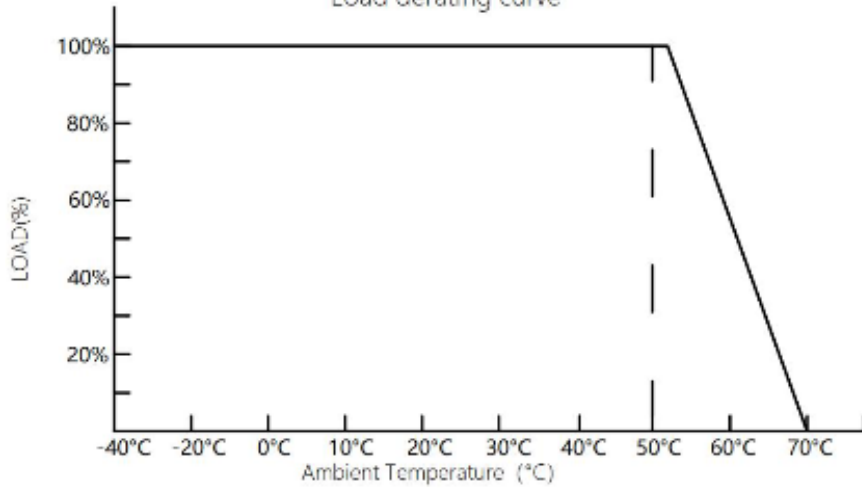
**Efficiency Curve**

**Power Factor Curve**



## Derating Curve

Load derating 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 failure, which is not covered by the warranty

- 1) Refer to Power Source Installation Manual.
- 2) Do Not Cover.
- 3) This LED driver should be installed by a qualified electrician.
- 4) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
- 5) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.