



Features:

- AC Input Range: 200~240VAC
- Constant Voltage with PWM Output
- Protections: Short Circuit, Over Load, Over Temperature
- Class I Power Supply
- IP66 design for outdoor installation
- Factory fitted flex and AU Plug
- DALI Protocol IEC 62386

Model		DDV-20-24
Output	DC Voltage (V)	24V
	Voltage Tolerance	±3%
	Voltage Regulation	≤0.5%
	Rated Current	0.416A
	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	47~63Hz
	Power Factor @ Full load	>0.99@120VAC >0.95@230VAC >0.92@277VAC
	THD (Typ.) @ Full load	≤10%@120VAC ≤10%@230VAC ≤10%@277VAC
	Efficiency @ full load	>84.0%@120VAC >83.0%@230VAC >83.0%@277VAC
	AC Current (Max.)	0.12mA
	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	≤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 10min./1 cycle,period for 60min. 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"> 1. Unless otherwise specified, all specifications are measured at 120V input, rated load, and 25°C ambient temperature. 2. In the case of low input voltage, derated output should be used to ensure a long service life. 3. Regarding LED driver load types where the driver meets the harmonic emissions requirements of ANSI C82.77-10. 	

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	40
	13A	52
	16A	64
	20A	80

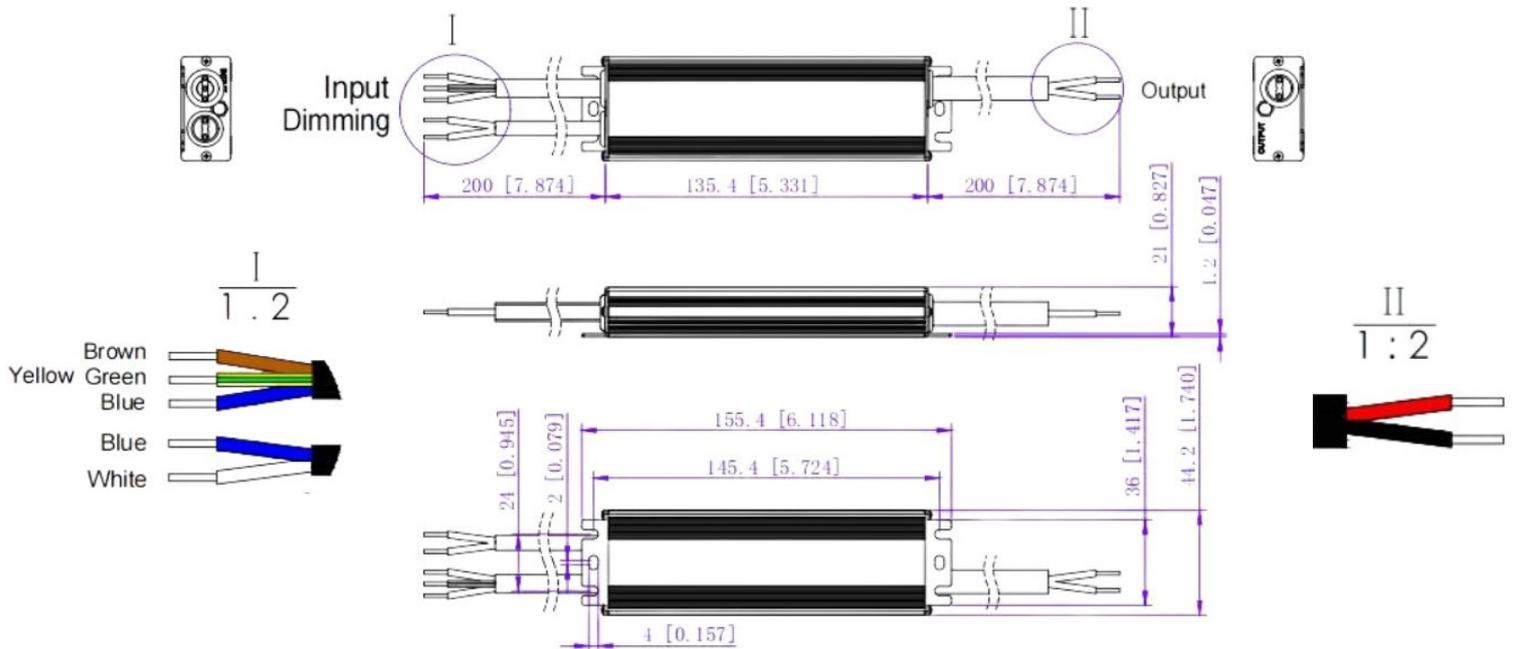
When the input voltage is 230VAC, the number of LED Driver matched by circuit breakers is as follows:

MCB Type	Level	The Number of LED Driver
C Type	10A	73
	13A	94
	16A	116
	20A	145

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

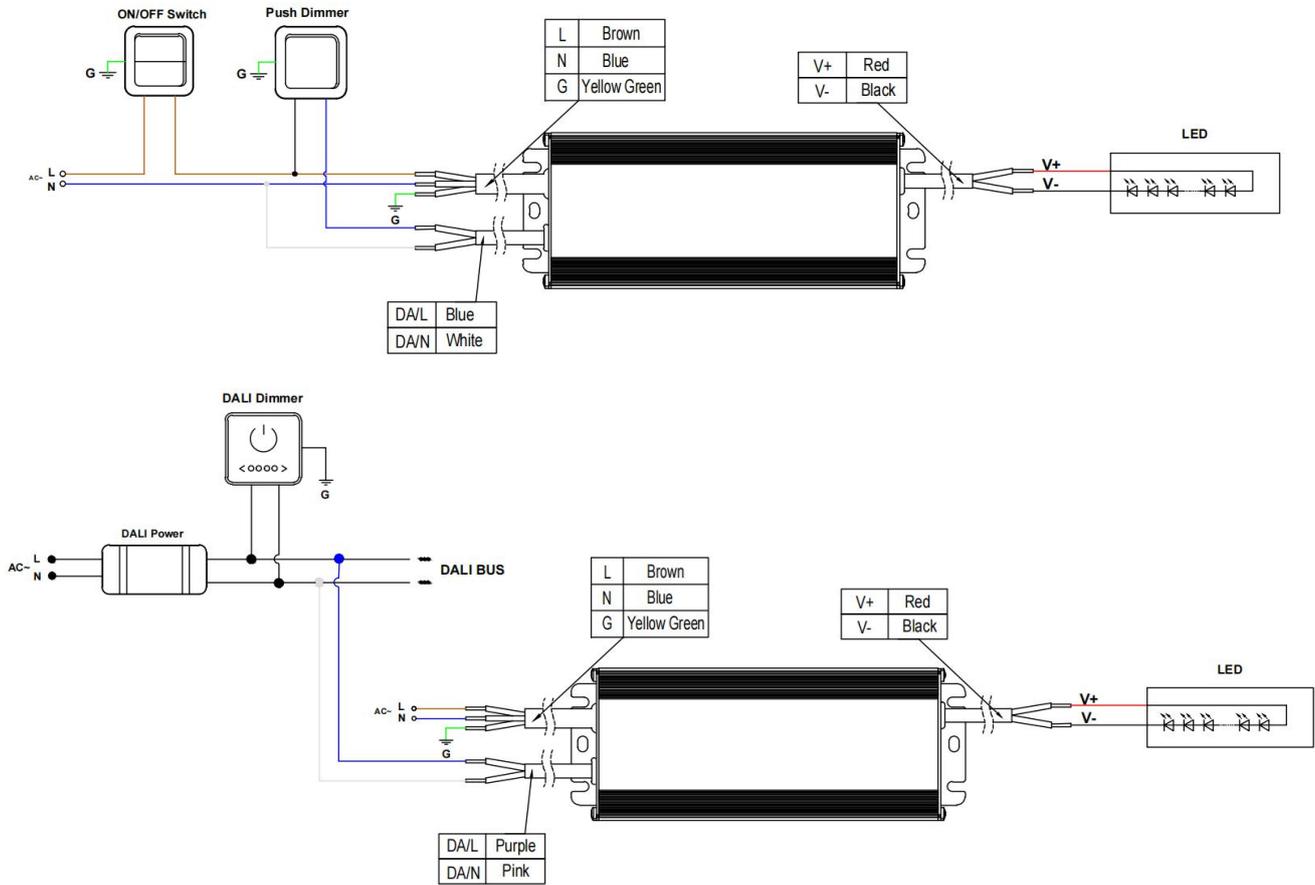
MCB Type	Level	The Number of LED Driver
C Type	10A	85
	13A	110
	16A	135
	20A	169

Mechanical Specifications

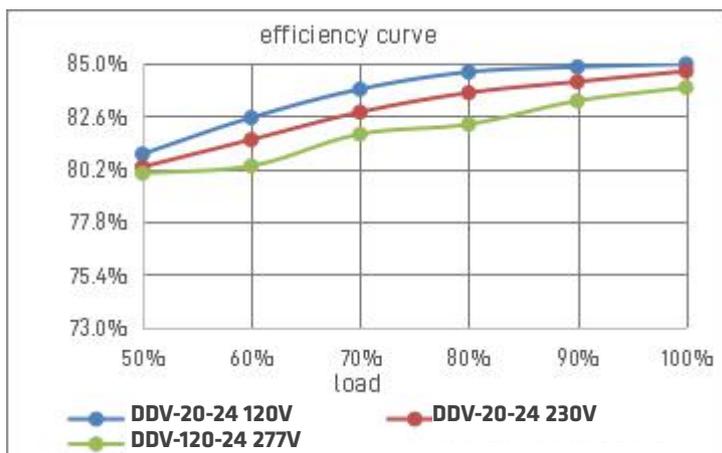


- Input: 1m AU Flex and Plug.
- Output: Rubber Cable 2*10.75mm² Red: (V Positive), Black: (V-Negative)
- Dimming: Rubber Cable 2*1.00mm² Blue: DA/L, White DA/N (Non-

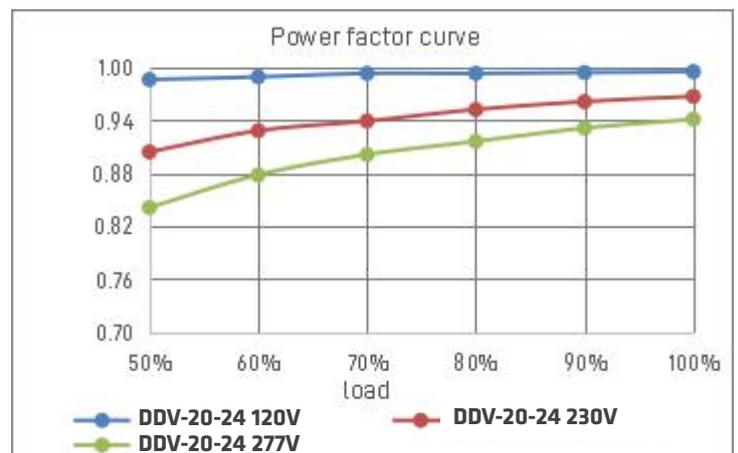
Connection Diagram



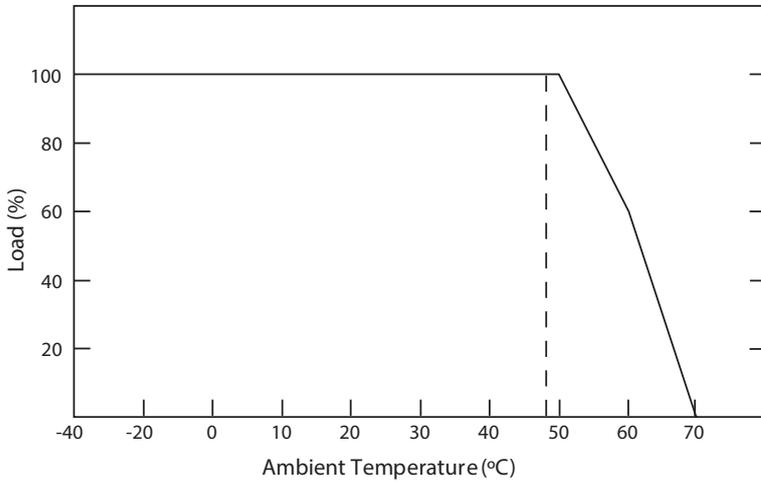
Efficiency Curve



Power Factor Curve



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.