

KLDC80JU(D) SERIES
80W DC Input Constant Current LED Driver


- Wide Input Voltage 20 to 30VDC
- Over Voltage / Short Circuit / Over Temperature Protection
- High Efficiency (up to 94%)
- Selectable dimming function (0~10V / PWM)
- IP67 Waterproof Rating, Fully isolated
- Comply to worldwide safety regulations for lighting
- Cooling by free air convection
- Suitable for LED lighting & moving sign applications, for dry / damp / wet locations

3 Year Warranty

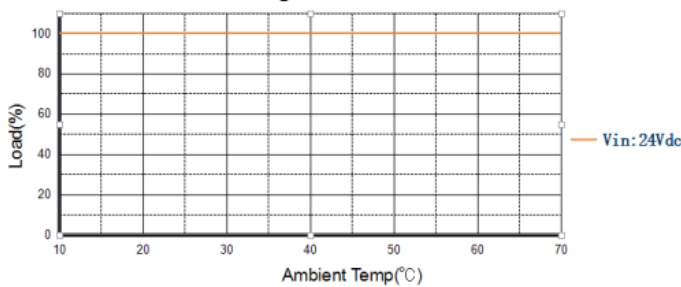
 Approvals: **CE IP67**
SPECIFICATION

PART NUMBER		KLDC80JU-S0850M	KLDC80JU-S1050M	KLDC80JU-S1200M
OUTPUT	DC VOLTAGE	33-94V	33-76V	33-67V
	CONSTANT CURRENT REGION Note.4	850mA	1050mA	1200mA
	RATED POWER	80W		
	RIPPLE & NOISE(max.) Note.2	0.42V	0.46V	0.49V
	VOLTAGE TOLERANCE Note.3	±5.0%		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME(Typ.) Note.7	250ms/98ms 24VDC at full load		
INPUT	VOLTAGE RANGE Note.5	20 ~ 30VDC		
	EFFICIENCY(Typ.)	94%	94%	93%
	DC CURRENT(Typ.)	3.55A/24VDC		
	INRUSH CURRENT(Typ.)	COLD START 105A at 12VDC		
	LEAKAGE CURRENT	<0.6mA/12VDC		
PROTECTION	OVER CURRENT Note.4	95 ~ 108% Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	SHORT CURRENT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	99V	82V	82V
		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	OVER TEMP.	Hiccup mode, recovers automatically after fault condition is removed		
ENVIRONMENT	WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	10 ~ 100% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 5 ~ 100% RH		
	TEMP. COEFFICIENT	±0.3%/°C (0~50°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		

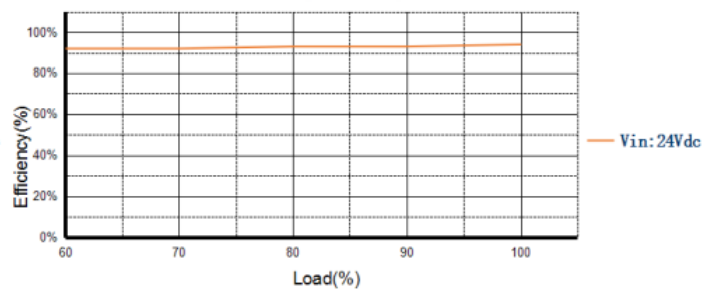
SAFETY & EMC	SATETY STANDARDS Note.6	Meet UL8750, UL935, UL1012, CSA-C22.2 No.107.1, EN61347-1, EN61347-2-13
	ISOLTATION RESISTANCE	I/P – FG: 100M Ohms / 500VDC /25°C / 70% RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (60% load); EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024
OTHERS	MTBF	370khrs min. MIL-HDBK-217F (25°C)
	DIMENSIION	104(124)*49*33MM (L*W*H)
	PACKING	310g±10g
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 24Vdc input, rated load and 25 of ambient temperature. Ripple & noise are measured at 20MHz of bandw idth by using a 12" twisted pair-w ire terminated w ith a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation & load regulation. Please refer to "DRIVING METHODS OF LED MODULE". Derating may bee needed under low input voltages. Please check the static characteristics for details. Suitable for indoor use or outdoor use w ithout direct sunlight exposure. Please avoid immerse in the w ater over 30 minutes. Length of set up time is measured at cold first start. Turning ON/OFF the pow er supply may lead to increase of the set up time. The power supply is considered as a component that w ill be operated in combination w ith final equipment. Since EMC performance w ill be affected by the complete installation, the final equipment manufactures must re-qualify EMC DIRECTIVE on the complete installation again. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. To fulfill requirements of the latest ERP regulation for lighting fixtures, this LED pow er supply can only be used behind switch w ithout permanently connected to the mains. 	

CHARACTERISTIC CHARTS

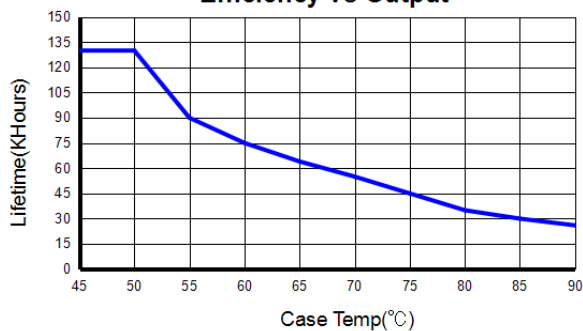
Derating Characteristics



Efficiency vs Output

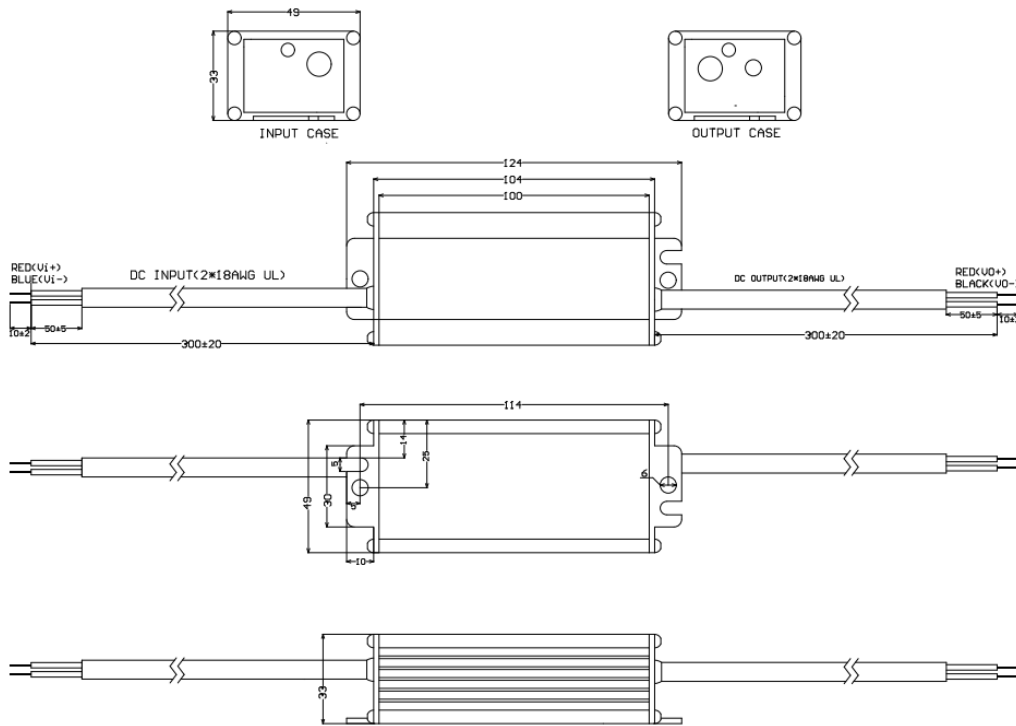


Efficiency vs Output

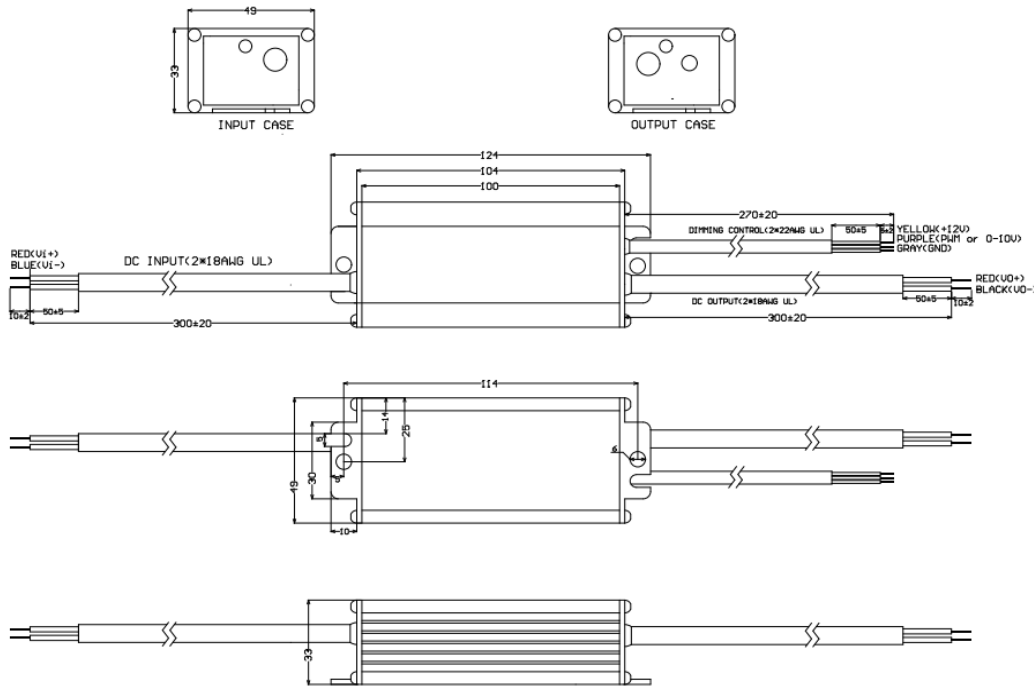


MECHANICAL DIAGRAMS

Non-Dimming Function Mechanical

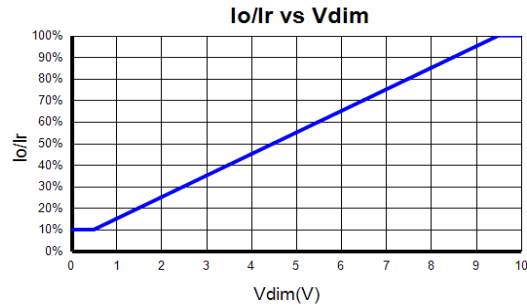
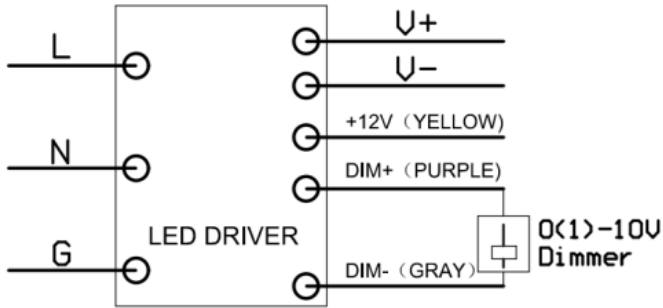


Dimming Function Mechanical



Dimming Function

0-10V Analog Dimming



DIMMING SPECIFICATIONS	12V AUXILIARY OUTPUT VOLTAGE	10.8-13.2V
	12V AUXILIARY OUTPUT SOURCE CURRENT(MAX)	200mA
	DIM+ PIN SOURCE CURRENT(MAX)	250uA
	DIMMING INPUT RANG	0-10V

NOTE:

1. If the dimming function is not used, all wire NC.
2. I_o is actual output current and I_r is rated current without dimming control.
3. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like resistors and zener
4. Do not connect the **GND of DIM-(gray)** to the output. Otherwise, the LED driver can not work normally.