LKAD037D-C

E478938 Class2 SELV TYPE HL CE RoHS

Features

Output:	Constant Current + 12V additional power supply
Range:	400mA-1200mA @ 10-42V (fixed & preset by factory)
PFC design:	Built-in active PFC function
Efficiency:	Up to 87%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof Performance:	For dry, damp, wet locations
Dimming function:	0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

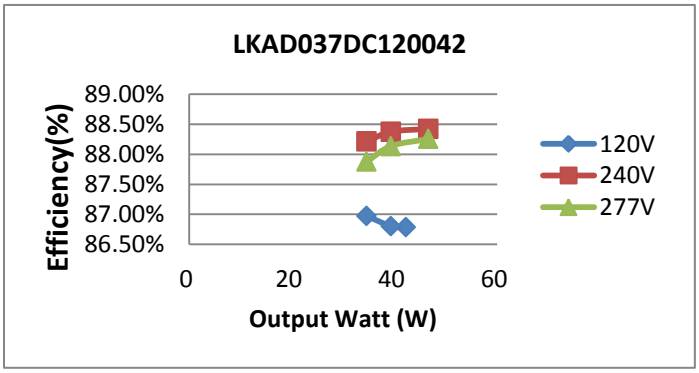
Specification

Model:		**LKAD037DC120042**		
Certificate		CE,Rosh,		
Output	DC Voltage	10-42V		
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	1200mA		
	Rated power	50W		
	Load Regulation	±2%		
Input	Voltage Range	120-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.95@120VAC		
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	≥85%@120VAC		
	AC Current (Max.)	0.58A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC 65A, 50%, 1.4ms @277VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	≤120% constant current limiting, auto-recovery after fault condition removed		
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/℃(0 - 50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes		
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13		
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25℃/ 70% RH		
	EMC Emission	FCC		
Others	Net Weight			
	Dimension	243 * 30* 21.5mm(L*W*H)		
	Packing	Cartons		
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation.			

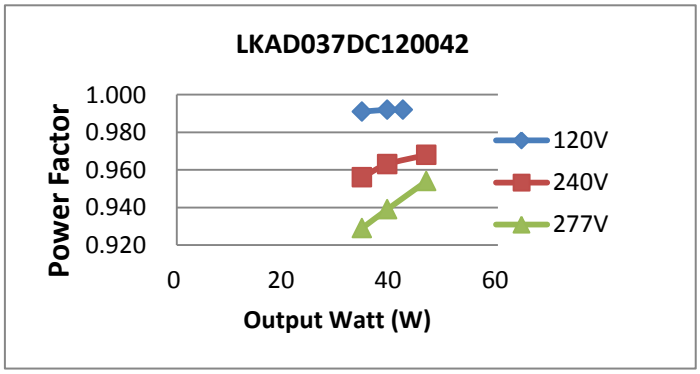
Electrical Characteristics

Model: LKAD037DC120042							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	418.00	48.69	0.992	38.00	1112	42.26	86.79%
	391.00	45.31	0.992	38.00	1035	39.33	86.80%
	342.00	39.76	0.991	38.00	910	34.58	86.97%
240V	231.00	52.73	0.968	38.00	1227	46.63	88.42%
	195.00	44.46	0.963	38.00	1034	39.29	88.38%
	173.00	39.20	0.956	38.00	910	34.58	88.21%
277V	201.00	52.83	0.954	38.00	1227	46.63	88.26%
	172.00	44.58	0.939	38.00	1034	39.29	88.14%
	153.00	39.35	0.929	38.00	910	34.58	87.88%

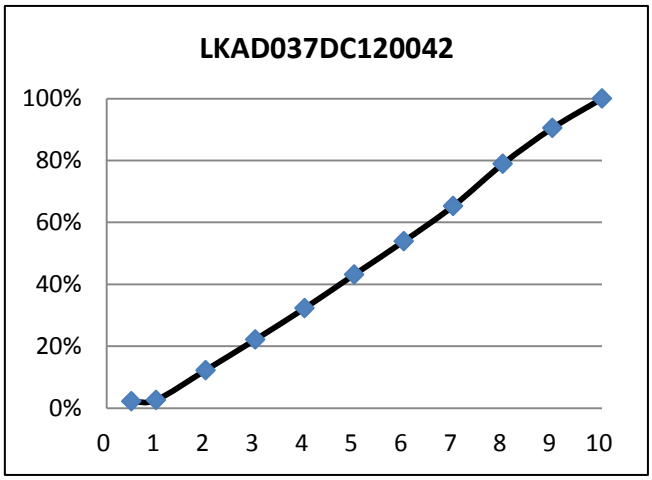
Efficiency Curve (efficiency vs ouput watt)



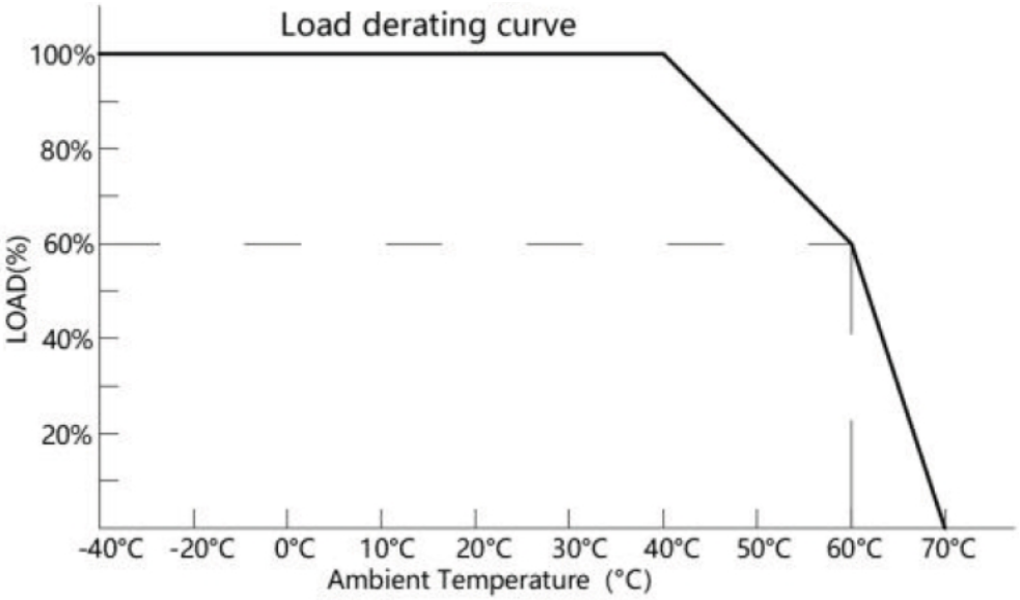
Power Factor Curve



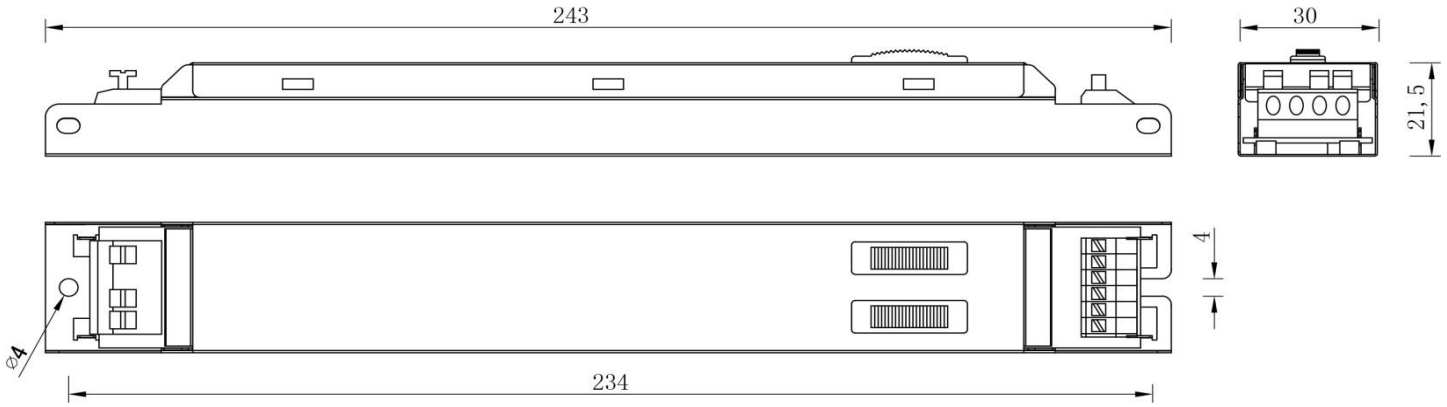
0-10V Dimming Curve



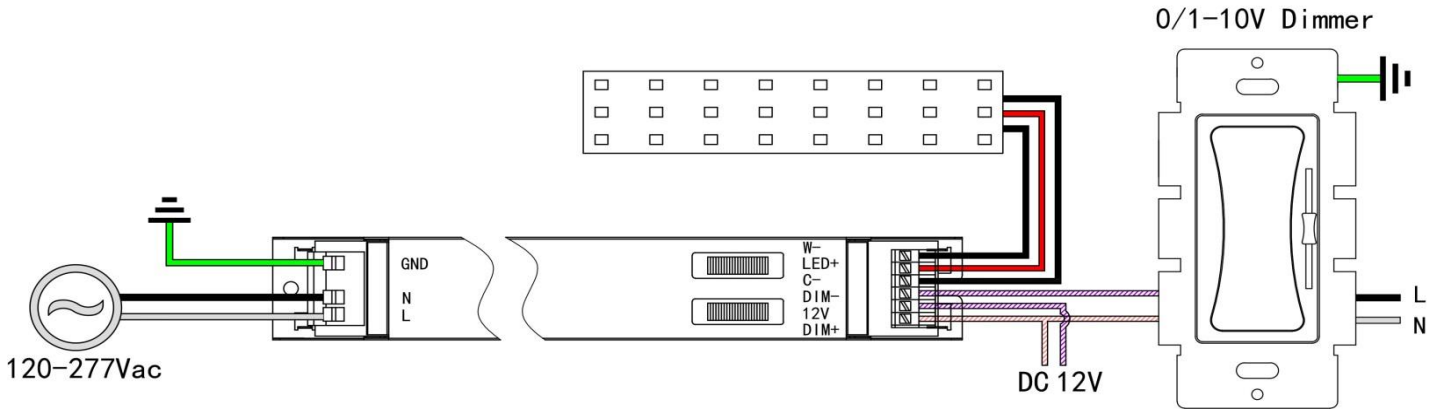
Derating Curve (output load vs TEMP.)



Installation Dimension



Wiring Diagram



1. Input cable 2*18AWG, Black cable to L, and White cable to N of Mains AC.
2. Output cable 2*18AWG, Red cable (+) to LED Positive side (+) , Black cable (-) to LED Negative side (-).
3. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-).
4. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged

Dimming Operation

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as potentiometer dimming system.

Notices

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.

If still have any questions, please contact us directly