

Q12P - series



12W AC-DC Constant Current LED Driver with 1-10V Dimming

Features

- Universal Input range from 110 to 277 VAC
- Fully Potted suitable for dry and damp location applications
- Built-in active PFC Function
- Constant Current design (C .C mode)
- 1-10V Dimming Control
- UL8750 and CE compliant
- Wide selection of per-adjusted C/C outputs (factory setting)
- Protections :
 - Over current / Short Circuit / Over Temperature
- 3 years warranty



Safety Approval



Specification

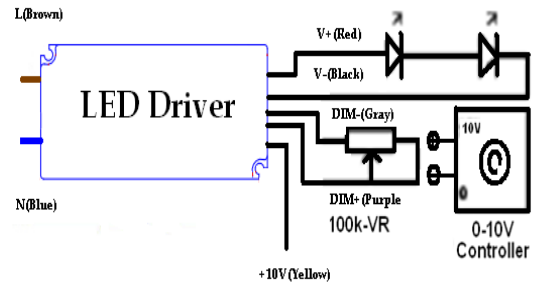
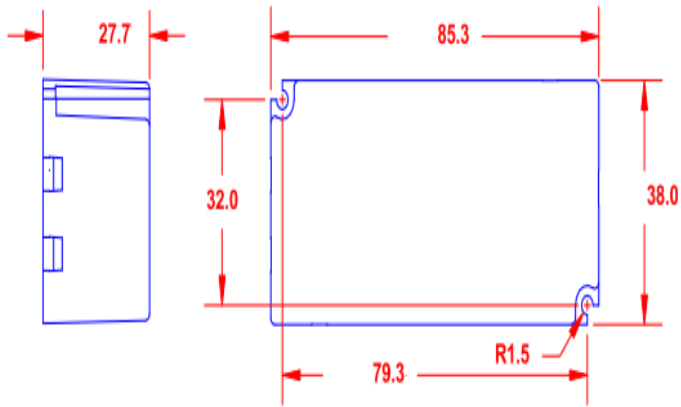
Model No.		LD012H-CU10012-Q12P	LD012H-CU05024-Q12P	LD012H-CU04030-Q12P	LD012H-CU03536-Q12P	LD012H-CU02942-Q12P	LD012H-CU02548-Q12P	LD012H-CU02254-Q12P	
Output	DC Voltage Range	6-12 V	15-24 V	18-30 V	24-36 V	36-42 V	42-48 V	46-54 V	
	Rated Current	1000 mA	500 mA	400 mA	350 mA	290 mA	250 mA	220 mA	
	Rated Max. Power	12 W	12 W	12 W	12 W	12 W	12 W	12 W	
	Current Tolerance	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
	Ripple & Noise (Max.) note.2	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	
	Efficiency note.1	82%	84%	85%	85%	85%	85%	85%	
	Set up Time (Max)	500ms / 230Vac at full load							
Input	Rated Voltage	110 - 277VAC							
	Frequency Range	50 ~ 60Hz							
	AC Current (Max.)	0.13A at 240Vac							
	Power Factor	> 0.92 at 240Vac with full load.							
	Inrush Current (Max.)	≤ 30A at 240Vac							
	Leakage Current	< 1mA / 240Vac							
Protections	Over Current	100% - 120% Constant current limiting, auto-recovery							
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed							
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down.							
Environment	Operation Temp.	-10°C ~ 60°C (Refer to output load derating curve)							
	Operation Humidity	20% ~ 90% RH non-condensing.							
	Storage Temp	-20°C ~ +80°C							
	Storage Humidity	10% ~ 90% RH							
Safety & EMC	Safety Standards	meet EN61347-1, EN61347-2-13, UL8750 refer UL1310							
	Withstand Voltage	I/P - O/P : 3.75K VAC							
	Isolation Resistance	I/P - O/P : 100M ohms / 500VDC at 25°C							
	EMI Conduction & radiation	meet EN55015							
	EMS Immunity	meet EN61000-4-2, 3, 4, 5, 6, 11 ; EN61547							
Connection	Input	UL rated, 18AWGx 2 C (150 mm)							
	Output	UL rated, 18AWGx 2 C, 20 AWGx 3 C (150 mm)							
Others	MTBF	100K hours min. @Ta=25°C							
	Dimension (L*W*H)	85.3 * 38.0 * 27.7 mm							
	Packing (L*W*H) / Carton	430 * 255 * 185 mm ; 100 pcs / 15.6 Kg							
Note	1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor. 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re - confirmed that it still meets EMC directives.								

Q12P - series



Mechanical Specification : 85.3 X 38.0 X 27.7 mm

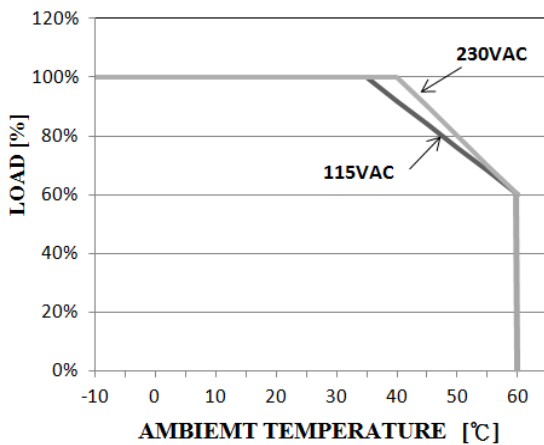
Wiring Diagram



Dimmer Recommended

Brand	Parts NO.
ES	EC011
ES	EC013

Derating Curve



Static Characteristics

