

• Universal AC input range 90~305VAC

Cooling by Free Air Convection (Metal Housing)
No Load Consumption <0.5 at 230Vac

The output and dimming lines a re-compliant with the new regulations with isolation.

Constant Voltage Operation
Built-in Active PFC Function
Protections: OVP / OCP/ SCP/ OTP
High Efficiency 94% ~ 94.5%
Fully insulated Case with IP67 level

Suitable for LED Strips and Moving Sign Applications
Function options: 3 in 1 dimming

(dim-to-off); DALI

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Project Name:	
Туре:	



LD300H-VUYYYNN-74

LD300H-VUYYYNN-74D / LD300H-VUYYYNN-74DA

WARRANTY

LD300H-VUYYYNN-74(X), **YYY**=Rated Current, **Nn**= DC Voltage, **(X)**=Black \rightarrow Non DIM **(X)=D** \rightarrow **3-in-1 Dim., (X)=DALI DIM**

CEFC IP65 SELV C US WARRANTY

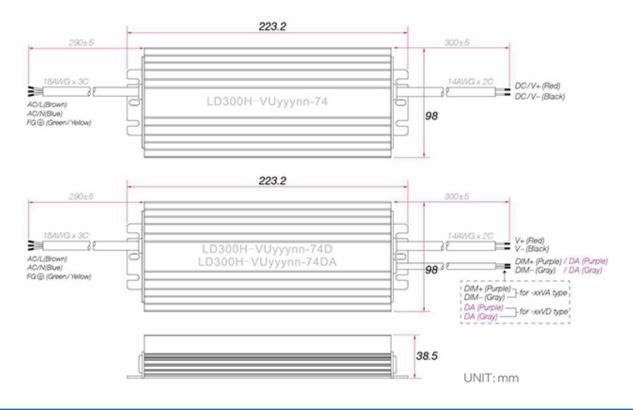
• See <u>Limited Warranty Policy</u> for more additional information

RELATED PRODUCTS

⊘ LD100H-70 LED Driver

- ∂ <u>HA060 Series</u>
- ∂ <u>HA100 Series</u>

Mechanical Drawing: 223.2 x 98 x 38.5mm





LD300H 300W AC-DC Constant Voltage LED Driver

Project Name:	
Туре:	

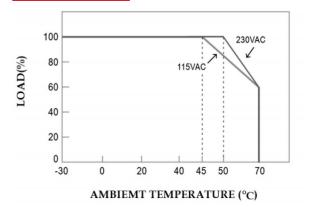
SPECIFICATION

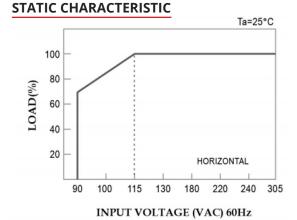
1	Model No.	LD300H-VU1K224-74(X)	LD300H-VU83336-74(X)	LD300H-VU62548-74(X)						
	DC Voltage	24V	36V	48V						
	Rated Current	12.5A	8.3A	6.25A						
	Current Range	0~12.5A	0~8.3A	0~6.25A						
	Rated Power	300W	298.8W	300W						
OUTPUT	Ripple & Noise(Max)	350mV	400mV	500mV						
	Efficiency at 230VAC (Typ.)	94%	94%	94.5%						
	Voltage Tolerance	±5%	±5%	±5%						
	PWM Dimming (Optional)	>	1600 Hz (for dimmable versio	n)						
	Setup Time (Max.)	0.5s	s / 230VAC, 1s/ 115VAC, at full	load						
	Rated Voltage 100 ~ 277VAC									
	Voltage Range	90 ~ 305VAC								
	Frequency Range									
	AC Current (Max)	3	3.4A at 115VAC/ 1.8A at 230VA	C						
INPUT	Power Factor		<0.94 at 230VAC at full load. P							
	Total harmonic Distortion		THD < 15% at 230VAC, full load							
	Inrush Current (Max)		Cold Start 80A at 230VAC							
	Leakage Current		<1mA / 240VAC							
	DC Dimming		DC 0-10V							
DIM. CONTROL	PWM Dimming	Pule: Hi-10)V Low=0V, Duty: 0%~100, Fsw							
(3 IN 1)										
	Resistance Dimming 0KΩ~100KΩ or Electronic Potentiometer 0-10V									
DIM. CONTROL (DALI)	DALI Standards	Compatibility with IEC 62386-101, 102 and 207								
	DALI bus current consumption	s current consumption < 2mA								
-	Over Current	er								
		Type: Auto	recover after fault condition of	lisappeared						
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared								
PROTECTIONS		26 ~ 38V	38 ~ 50V	50 ~ 65V						
	Over Voltage	Type: Hiccup mode (re-power on to recover)								
	0 T I	Type: 95°C ± 10%								
	Over Temperature	Type: Shutdown mode (re-power on to recover)								
	Working Temp.	-3	0°C ~ 50°C (Refer to Derating Cur	ve)						
ENVIRONMENT	Working Humidity	20% ~ 90% RH non-condensing								
ENVIRONIVIENT	Storage Temp., Humidity		-40 ~ + 80°C, 10% ~ 90% RH							
	Vibration	10 ~ 500Hz, 2G 10	min./ 1 cycle, period for 60min. Ea	ach long X, Y, Z axes						
	Safety Standard	EN61347-1, EN61347-2-13, independent, IP67 approved								
	Withstand Voltage	I/P-O/P: 3	.75KVAC I/P-FG: 1.88KVAC O/P-FG	G: 0.5KVAC						
SAFETY & EMC	Isolation Resistance	I/P – C	D/P, I/P-FG: 100M ohms/ 500VDC	at 25°C						
0	EMC Emission	С	ompliance to EN55015, FCC part	15						
	Harmonic Current		EN61000-3-2 Class C (≧ 75% load							
	EMS Immunity		EN61000-4-2, 3, 4, 5, 6, 8, 11; EN6							
OTHERS	MTBF		OK hours min. MIL-HDBK-217F(25							
	Dimension (L*W*H)		223.2 x 98 x 38.5 mm; 1100g/pcs							
NOTE	 Ripple & Noise are measured at 20 capacitor. Tolerance: includes set up tolerance. Derating maybe needed under low 5. The power supply is considered as will be affected by the complete instainstallation again. Length of setup time is measured a 	All parameters NOT specially mentioned are measured at 230V AC input, rated, load and 25°C ambient temperature. Ripple & Noise are measured at 20 MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel pacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating maybe needed under low input voltage. Please check the static characteristic for more details. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance ill be affected by the complete installation, the final equipment manufacture must re-qualify EMC Directive on the complete stallation again. Length of setup time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the setup time. The unit might not be suitable for lighting application in EU countries. Please check with your local authorities for the possible use c								



Project Name:	
Туре:	

DERATING CURVE





3-in-1 Dimming Control (DC/ PWM/ Resistance) 3-in01 Dimmable Function Description

(1) 0-100KΩ RESISTANCE DIMMABLE (TYPICAL)

	Single-driver	Short	9K	20K	30K	40K	50K	60K	70K	80K	95K	100K
Resistor	Multi-driver	Short/N	9K/N	20K/N	30K/N	40K/N	50K/N	60K/N	70K/N	80K/N	95K/N	100K/ N
Vout D	uty Cycle(%)	0%	2%	14.5%	25.9%	37.3%	48.7%	60.1%	71.5%	82.9%	100%	100%

The length of extended wire for DIM+/-shall not exceed 20meters. (Wire \leq 20m) N= The number of dimmer drivers should not exceed 15. (N \leq 15) DIM+/- < 7K or 7K Vout Duty cycle 0%

(2) DC: 0-10V DIMMABLE (TYPICAL)

DIM(Voltage)	0V	0.9V	2V	3V	4V	5V	6V	7V	8V	9.5V	10V
Vout Duty Cycle(%)	0%	2%	14.5%	25.9%	37.3%	48.7%	60.1%	71.5%	82.9%	100%	100%

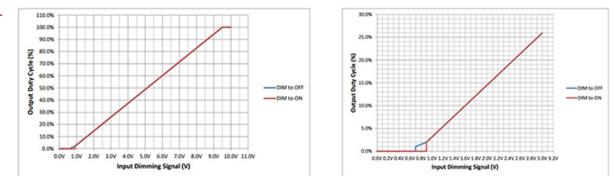
DIM+/- < 7K or 7K Vout Duty cycle 0%

(3) 10V/PWM DIMMABLE (TYPICAL)

DIM(10V/PWM Duty)	0%	9%	20%	30%	40%	50%	60%	70%	80%	95%	100%
Vout Duty Cycle(%)	0%	2%	14.5%	25.9%	37.3%	48.7%	60.1%	71.5%	82.9%	100%	100%

DIM+/- < 7K or 7K Vout Duty cycle 0%



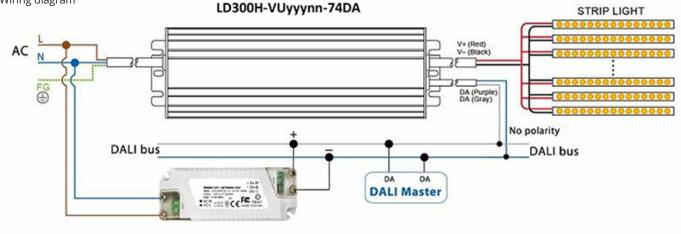




Project Name: Type:

DALI INTERFACE

DALI Function Description (1) Apply DALI signal between DA wires (2) First step is fixed at 1% of output (3) Wiring diagram



DALI POWER

DALI Bus STRIP LIGHT 0000000000000000 00000000000000000 88 0 ٠ 00000000000000000 000000000000000 1234 DALI MASTER / APPLICATION CONTROLLER Max. 64 sets STRIP LIGHT DALI POWER [0000000000000000] 00000000000000000

APPLICATION DIAGRAM