



2016-V1.0-0628

Specifications

Constant Current LED Power Supplies

LLMU-40C Series, 40W

PAIRUI ELECTRONICS

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2016

LED Power Supplies for Indoor Use

LLMU-40C SERIES, 40WATT, IP20 RATING

Features

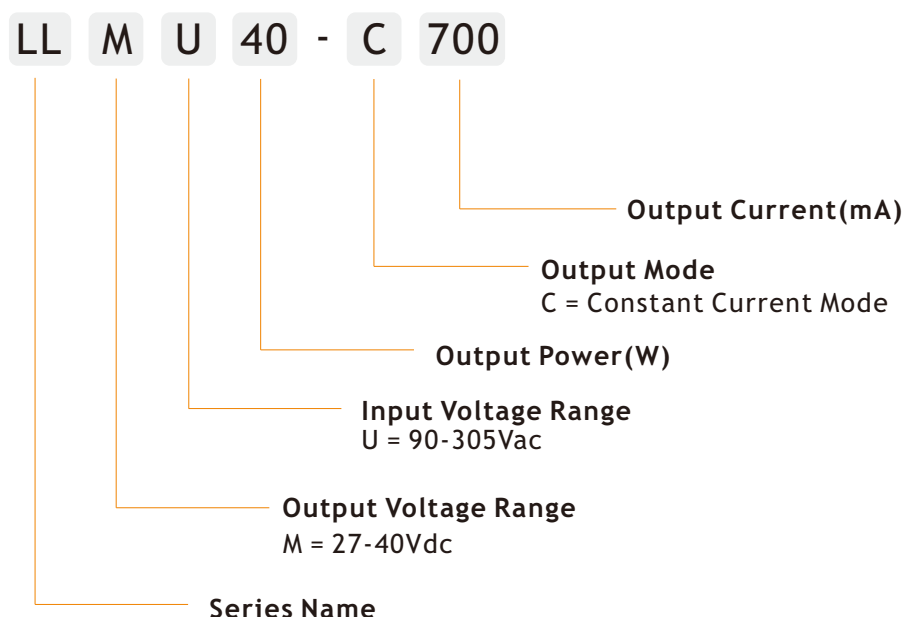
- 3 Year Warranty
- Universal Input Voltage Range: 90~305Vac
- Constant Current Output Mode
- Waterproof Rating IP20
- Can be used for Lighting Equipment in Protection Class I and II
- Short Circuit, Open Circuit Protections
- Built-in Active Power Factor Correction
- No Flickering



Applications

- ✓ Panel Light
- ✓ Cabinet Light
- ✓ Strip Light
- ✓ Other Indoor used Lights
- ✓ Tri-Proof Light

Electrical



Electrical

Part Number	Nominal Input Voltage	Output Current Output Voltage	Output Power	Ripple	Certificate
LLMU40-C600	100-277VAC	600mA(27-40V)	24W	5%	CE
LLMU40-C700	100-277VAC	700mA(27-40V)	28W	5%	CE
LLMU40-C800	100-277VAC	800mA(27-40V)	32W	5%	CE
LLMU40-C900	100-277VAC	900mA(27-40V)	36W	5%	CE
LLMU40-C950	100-277VAC	950mA(27-40V)	38W	5%	CE
LLMU40-C1000	100-277VAC	1000mA(27-40V)	40W	5%	CE

NOTE: Other output models are may available on request.

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=230Vac			0.7	A
Inrush current	Cold start, Vin=230Vac			60	A
Power factor(PF)	Full load, Vin=100Vac Full load, Vin=230Vac		0.96 0.93		
Efficiency	Full load, Vin=100Vac Full load, Vin=230Vac		86 86		% %
Surge voltage	L-N L-FG N-FG		2 4 4		KV KV KV

OUTPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output current accuracy			±5		%
Line regulation	Vin from 100Vac to 277Vac		±5		%
Turn-on delay time	Cold start, power on			0.5	S
THD	Output load≥60%			20	%

NOTE: The values are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25°C at rated input voltage and rated load.

Protection

Short circuit	In hiccup mode, it will recover automatically after fault condition is removed
Open circuit	<55V In hiccup mode, it will recover automatically after fault condition is removed

Environment

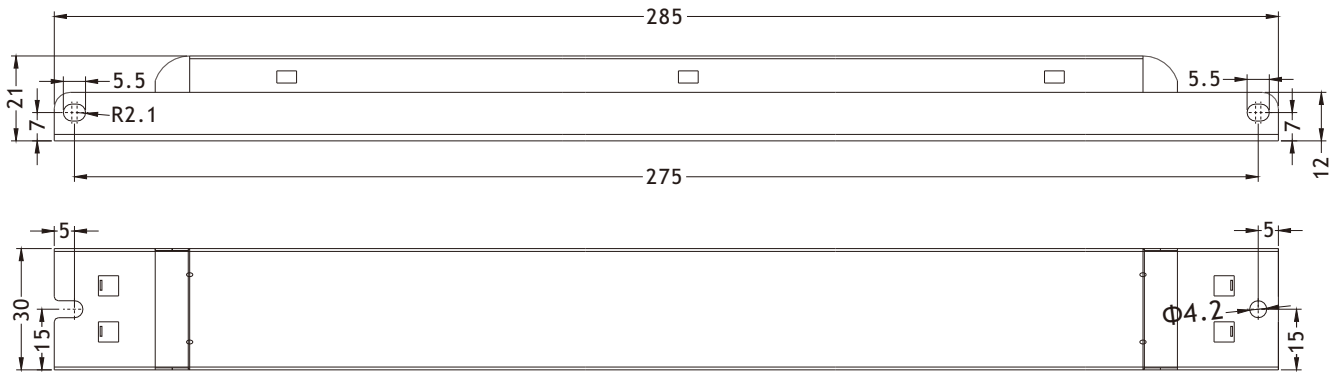
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-30		+50	°C
Operating relative humidity	Non condensing	20		90	%
Storage temperature	Humidity 10 ~ 90% RH	-40		+80	°C
MTBF	Full load, 220Vac input, 25°C ambient temperature	300			Khrs
Waterproof rating	IP20				
Dimension(LxWxH)	285.0 x 30.0 x 21.0mm				
Weight	195g				

Safety/EMC

Withstand voltage	I/P-O/P: 3.75KVac(<5mA, 60S) I/P-FG: 1.6KVac(<5mA, 60S)
Insulation resistance	I/P-O/P: 500VDC(>100mΩ)
Safety	Design refer to EN61347-1, EN61347-2-13
EMC	Compliance to EN55015, EN61000-3-2, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

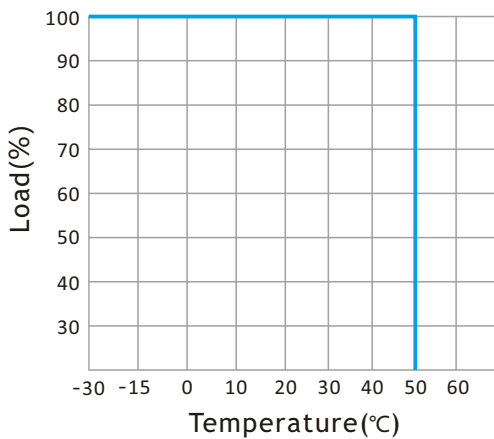
Mechanical



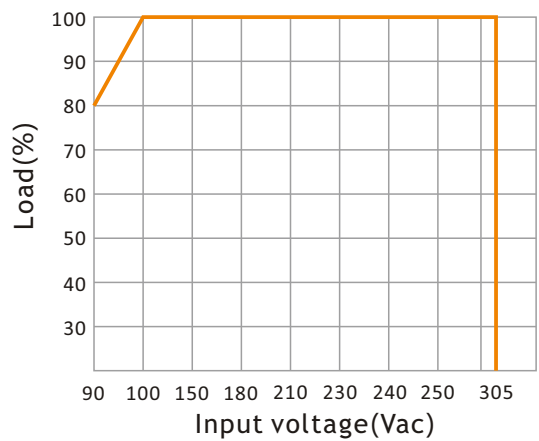
Unit: mm

Electrical Curve






DERATING CURVE






STATIC CHARACTERISTIC CURVE



Labelling

INPUT ACL ACN NC GND 0.5-1mm □	 LED DRIVER LLMU40-C1000	Uin: 100-240V~ 277V~ (for North America only)	In: 0.24A	FOR LED MODULES ONLY CE   SELV  MADE IN CHINA	Preparation for input and output  3mm	OUTPUT LED+ LED- 0.5-1.5mm □
		Frequency: 50/60Hz Output Voltage: 27-40V ~	I rated: 1000mA(CC) P rated: 40W			

Symbol	Description
	Short-circuit-proof with safety insulation
	WEEE Mark(Wasted Electrical and Electronic Equipment)
SELV	Safety Extra Low Voltage
	For Indoor Use
CE	CE Mark