



Constant Current Driver

Model: LC40W250-400



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC40W250-400	250mA	0.24A	46.6W	12.5-40.0W	0.95	90%	50-160V	200V
	300mA	0.24A	47.2W	15.0-40.5W			50-135V	
	350mA	0.24A	46.9W	17.5-40.25W			50-115V	
	400mA	0.24A	46.6W	20.0-40.0W			50-100V	

* Test result @230V, 50Hz, Full Load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	Rated Input Voltage	220-240V
	Range of AC Input Voltage	198-264VAC
	Range of DC Input Voltage	198-280VDC
	Frequency	0/50-60Hz
	Input Current	≤0.24A (230VAC, full load)
	Input Power	≤46.6W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Input Over Voltage protection	When input voltage over 330-390VAC , output will be cut off, and can withstand 2 hrs. That is auto recovery, when input voltage come back normal input voltage range.
Output	No Load Voltage	200VDC Max.
	Output Current	250-400mA
	Max. Output Power	40.5W
	Efficiency	≥90% (230VAC, full load)
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±5%
	Started Delay Time	≤0.5S (230VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery

	No-load Protection	/
	Insulation voltage	3750V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20....+50°C
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PR1 Wire preparation	0.75-1.5 [□]
	SEC Wire preparation	0.5-1.5 [□]
	Dimension	230x30x 21mm (L*W*H)
Standards	Certification	CE、EAC
	Safety Standards	EN61347-1,EN61347-2-13
	EMC Standards	EN55015,EN61000-3-2,EN61000-3-3,EN61547
	Performance	EN62384
	Surge	L-N:1KV; L/N-PE:2KV;
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta/ Tc
	Warranty	5years , F.R. < 10000ppm
<p>Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature. 2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.</p>		




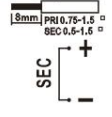
2. Output Current Setting

Output Current	Dial 1	Dial 2
400mA	ON	ON
350mA	OFF	ON
300mA	ON	OFF
250mA	OFF	OFF

3. Connected quantities of different current Breaker

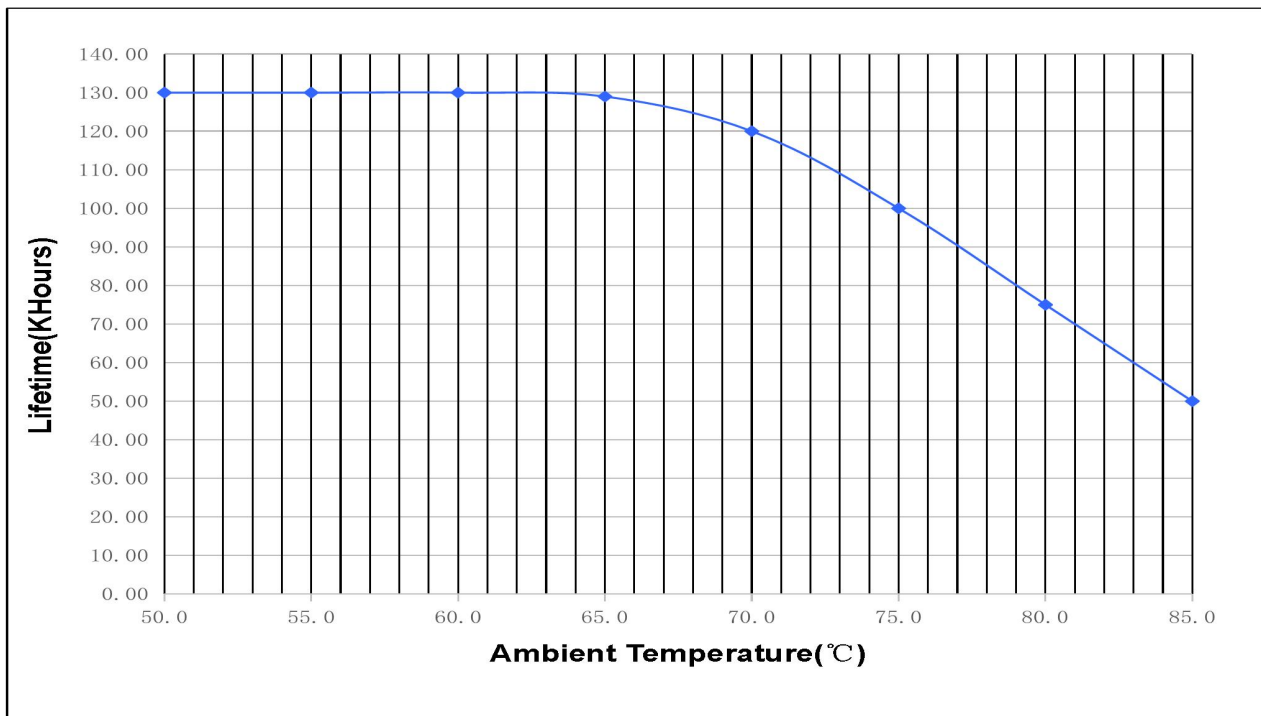
TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B	15	20	24	30	38	@230VAC	40	400us	
TYPE C	24	31	38	48	60				
TYPE D	38	50	61	77	96				

4. Label

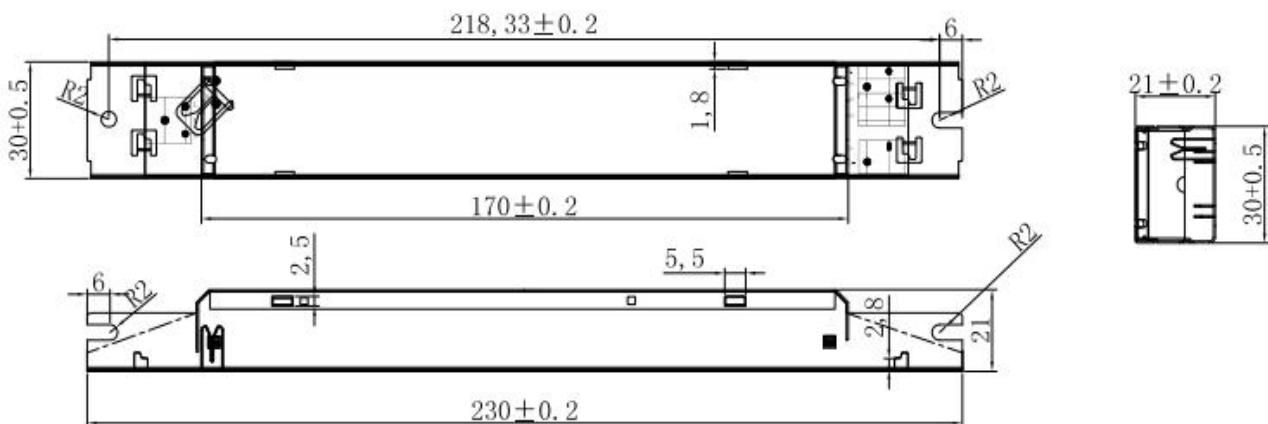
<input type="checkbox"/> N	 <p>KGP KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</p> <p>LED Power Supply LC40W250-400 Constant Current Type</p>	PIN1	PIN2	I _{rated} [mA]	P _{rated} [W]	U _{rated} [V]	U _N / f _N	I _{in} [A]	t _c [°C]	t _a [°C]	λ	  <p>wire preparation 8mm P1 0.75-1.5 SEC 0.6-1.5</p> 
<input type="checkbox"/> ⊕		OFF	OFF	250	40	50-160	220-240VAC 50/60Hz	0.24	85	-20...+60	0.95	
<input type="checkbox"/> L		ON	OFF	300	40.5	50-135						
OFF-ON 1 2		OFF	ON	350	40.2	50-115						
	ON	ON	400	40	50-100							

U_{out}: Max. 200VDC For LED modules only

5. Lifetimecurve



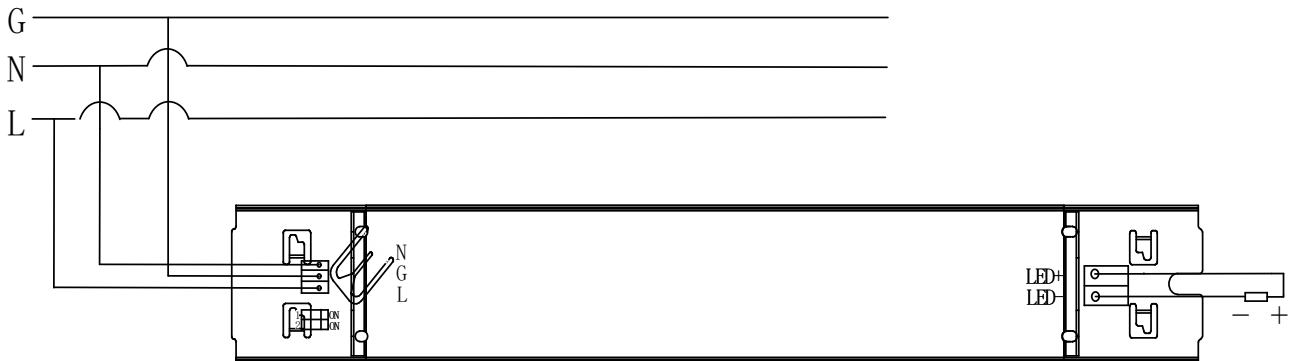
6. Dimension (Unit: mm)



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
420*280*180	60	0.152	9.12	9.56

8. Wiring Diagram



9. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)
- The lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live parts.

10. REVISION HISTORY

DATE	VER	REMARK
2023-11-7	V1.0	Initial release.
2024-5-29	V1.0	Add Range of DC Input Voltage.