



### Constant Current Driver

Model: LC60W1100-1400S



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typical)	Output Voltage	No load Voltage
LC60W1100-1400S	1100mA	0.31A	63W	23.1-56.1W	0.95	90%	21-51V	70V
	1200mA	0.33A	69W	25.2-61.2W	0.95		21-51V	
	1300mA	0.32A	66W	27.3-58.5W	0.95		21-45V	
	1400mA	0.32A	65W	29.4-58.8W	0.95		21-42V	

\* 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	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	0/50/60Hz
	Input Current	≤0.33A (230VAC, full load)
	Input Power	≤69W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤45A/16us (230VAC, full load)
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	Output Voltage Range	21-51VDC
	No Load Voltage	70VDC Max.
	Output Current	1100mA-1400mA
	Max. Output Power	61.2W
	Efficiency	≥90% (230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4

	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Started Delay Time	≤0.5S (230VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
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	Built-in
	PRI Wire preparation	0.75-1.5 <sup>□</sup>
	SEC Wire preparation	0.5-1.5 <sup>□</sup>
	Dimension	230x30x 21mm (L*W*H)
Standards	Certification	CE、EAC
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1 BS EN 61347-1:2015/A1:2021 BS EN 61347-2-13:2014/A1:2017 BS EN 62493:2015 BS EN IEC 62384:2020
	EMC Standards	EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN 61547:2009
	Performance	EN62384:2020
	Surge	L-N:1KV; L/N-PE:2KV;
Others	RoHS	complied to 2011/65/EU
	REACH	EU Regulation (EC) No 1907/2006
	Life Time	50000h @Ta/ Tc
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB ,Interval≥15cm
<p><b>Remark:</b></p> <ol style="list-style-type: none"> <li>All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.</li> <li>LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.</li> <li>Do not install upside down.</li> </ol>		










### 2. Output Current Setting

Output Current	Dial 1	Dial 2
1100mA	OFF	OFF
1200mA	ON	OFF
1300mA	OFF	ON
1400mA	ON	ON

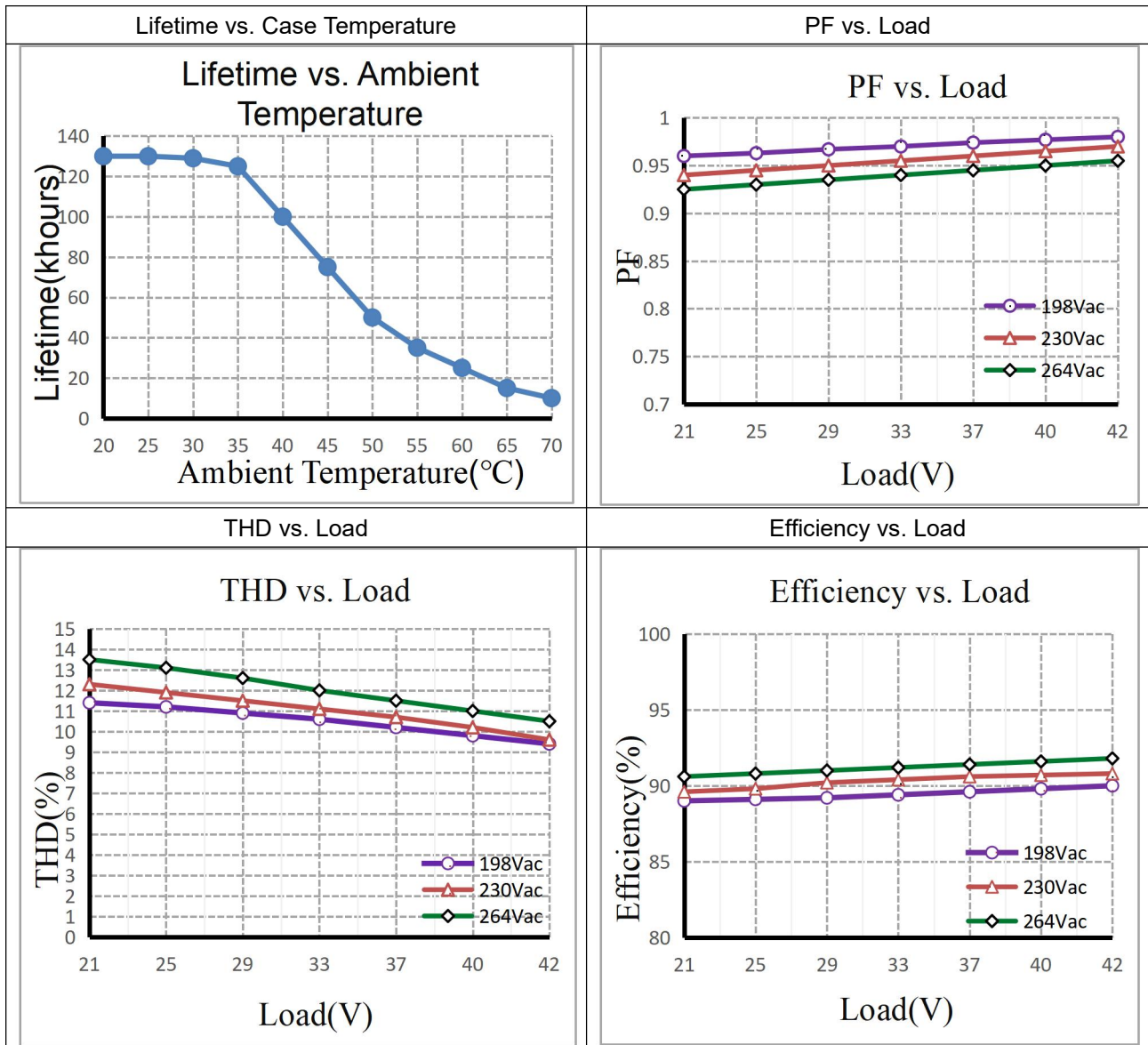
### 3. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>			
TYPE B		29	38	47	58	73	@230VAC	20.6	614us
TYPE C		47	61	75	93	117			
TYPE D		75	97	119	149	186			

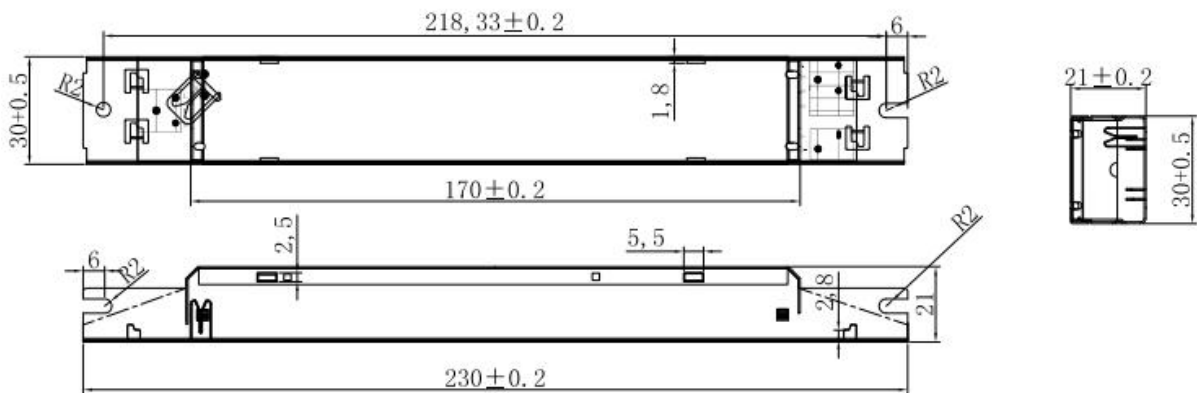
### 4. Label

<input type="checkbox"/> ⊕ <input type="checkbox"/> L <input type="checkbox"/> N 	 <b>KGP</b> KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid <b>LED Driver</b> <b>LC60W1100-1400S</b> Constant Current Type	<table border="1"> <thead> <tr> <th>PIN1</th> <th>PIN2</th> <th>I<sub>rated</sub> [mA]</th> <th>P<sub>rated</sub> [W]</th> <th>U<sub>range</sub> [V]</th> <th>U<sub>N</sub> / f<sub>N</sub></th> <th>I<sub>n</sub> [A]</th> <th>t<sub>c</sub> [°C]</th> <th>t<sub>a</sub> [°C]</th> <th>λ</th> </tr> </thead> <tbody> <tr> <td>OFF</td> <td>OFF</td> <td>1100</td> <td>56.1</td> <td>21-51</td> <td rowspan="4">220-240VAC 50/60Hz</td> <td>0.31</td> <td rowspan="4">85</td> <td rowspan="4">-20...+50</td> <td>0.95</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>1200</td> <td>61.2</td> <td>21-51</td> <td>0.33</td> <td>0.95</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>1300</td> <td>58.5</td> <td>21-45</td> <td>0.32</td> <td>0.95</td> </tr> <tr> <td>ON</td> <td>ON</td> <td>1400</td> <td>58.8</td> <td>21-42</td> <td>0.32</td> <td>0.95</td> </tr> </tbody> </table>	PIN1	PIN2	I <sub>rated</sub> [mA]	P <sub>rated</sub> [W]	U <sub>range</sub> [V]	U <sub>N</sub> / f <sub>N</sub>	I <sub>n</sub> [A]	t <sub>c</sub> [°C]	t <sub>a</sub> [°C]	λ	OFF	OFF	1100	56.1	21-51	220-240VAC 50/60Hz	0.31	85	-20...+50	0.95	ON	OFF	1200	61.2	21-51	0.33	0.95	OFF	ON	1300	58.5	21-45	0.32	0.95	ON	ON	1400	58.8	21-42	0.32	0.95	•tc      wire preparation  SEC 
PIN1	PIN2	I <sub>rated</sub> [mA]	P <sub>rated</sub> [W]	U <sub>range</sub> [V]	U <sub>N</sub> / f <sub>N</sub>	I <sub>n</sub> [A]	t <sub>c</sub> [°C]	t <sub>a</sub> [°C]	λ																																			
OFF	OFF	1100	56.1	21-51	220-240VAC 50/60Hz	0.31	85	-20...+50	0.95																																			
ON	OFF	1200	61.2	21-51		0.33			0.95																																			
OFF	ON	1300	58.5	21-45		0.32			0.95																																			
ON	ON	1400	58.8	21-42		0.32			0.95																																			
U <sub>out</sub> :Max.70VDC      For LED modules only																																												

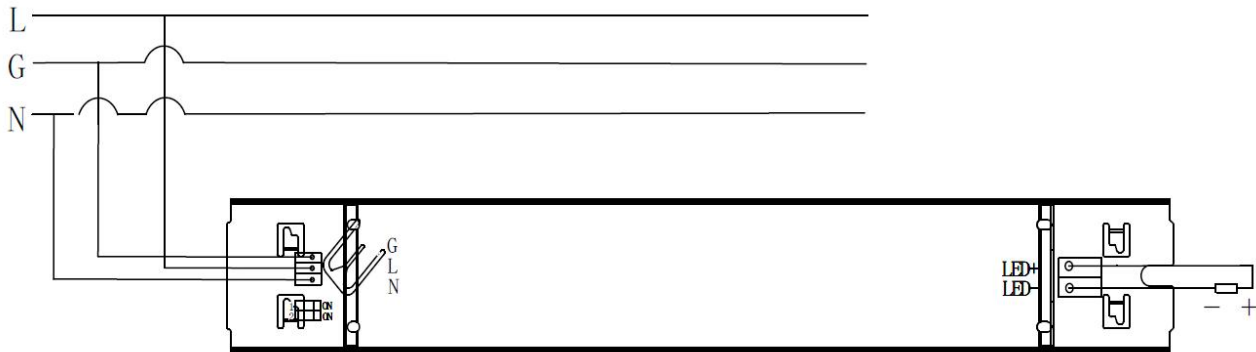
### 5. Lifetime curve



### 6. Dimension (Unit: mm)



### 7. Wiring Diagram



### 8. Packing information

Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
390*260*175mm	60PCS	0.175	10.5	13.5

### 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.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

### 10. Replace LED module

- Mains off
- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

**11. REVISION HISTORY**

<b>DATE</b>	<b>VER</b>	<b>REMARK</b>
2024-11-07	V1.0	Initial release.