



Constant Current Driver

Model: LC75W900-1800



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC75W900-1800	900mA	0.24A	52.0W	18-45W	0.92	87%	20-50V	65V
	1000mA	0.27A	58.0W	20-50W	0.93	87%		
	1100mA	0.30A	63.0W	22-55W	0.93	88%		
	1200mA	0.31A	69.0W	24-60W	0.94	88%		
	1300mA	0.34A	74.0W	26-65W	0.94	89%		
	1400mA	0.36A	79.0W	28-70W	0.95	89%		
	1500mA	0.38A	85.0W	30-75W	0.95	89%		
	1600mA	0.35A	77.0W	32-67.2W	0.94	89%	20-42V	
	1700mA	0.37A	81.0W	34-71.4W	0.95	89%		
	1800mA	0.38A	85.0W	36-75.6W	0.95	89%		

* 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 DC Input Voltage	198-280VDC	
	Range of Input Voltage	198-264VAC	
	Frequency	50/60Hz	
	Input Current	≤0.38A	(230VAC, full load)
	Input Power	≤85W	(230VAC, full load)
	Power Factor	≥0.95	(230VAC, full load)
	THD	≤20%	(230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC	
	No Load Voltage	65VDC Max.	

	Output Current	900mA -1050mA
	Max. Output Power	75.6W
	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	Auto Recovery
	Insulation voltage	3000V 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
	PRI Wire preparation	0.75-1.5 [□]
	SEC Wire preparation	0.75-1.5 [□]
	Dimension	280x30x 21mm (L*W*H)
Standards	Certification	ENEC、CE、UKCA、SAA、EL
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	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
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.		









2. Output Current Setting

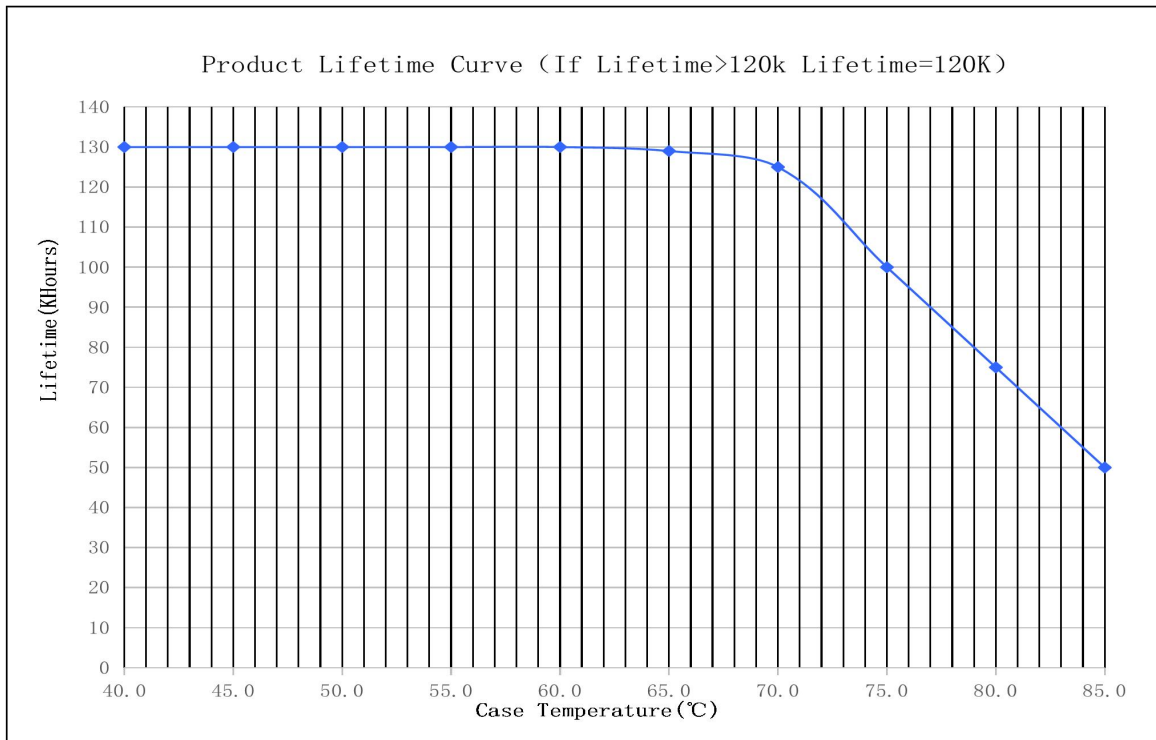
Output Current	1	2	3	4
900mA	-	-	-	-
1000mA	-	-	-	ON
1100mA	-	-	ON	-
1200mA	-	-	ON	ON
1300mA	-	ON	-	-
1400mA	-	ON	-	ON
1500mA	-	ON	ON	-
1600mA	-	ON	ON	ON
1700mA	ON	-	-	-
1800mA	ON	-	-	ON

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 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				

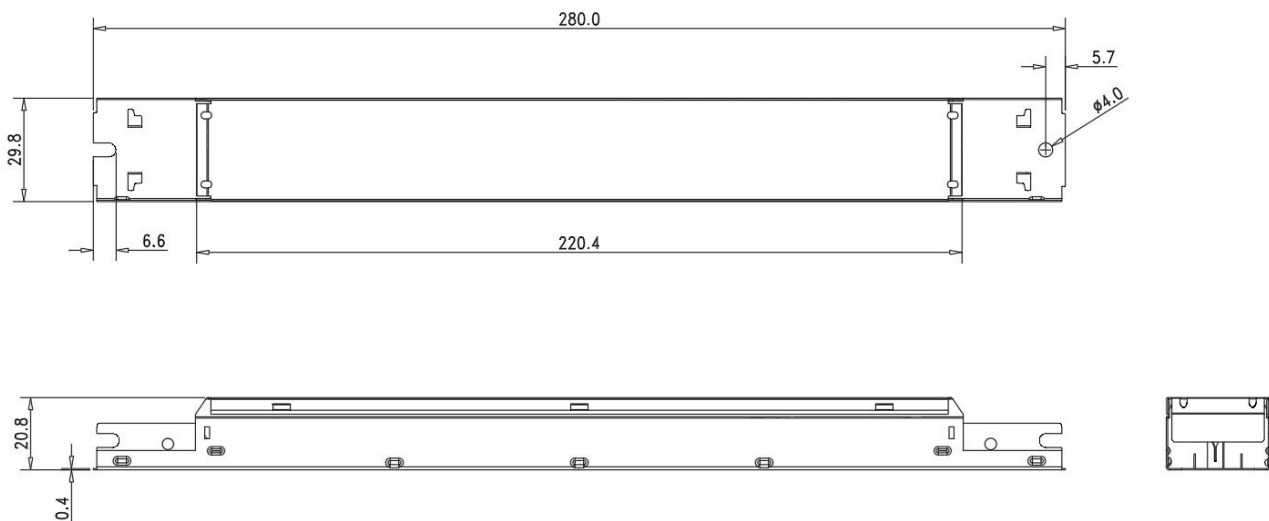
4. Label

<input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/> ⊕	 LED Driver LC75W900-1800 Constant Current Type	PRI:220-240V 0/50-60Hz Max.0.38A SEC:900-1500mA 20-50VDC 1600-1800mA 20-42VDC No Load:65VDC Max.76W ta:50°C ta:85°C For LED modules only	<table border="1"> <thead> <tr> <th>Pout [W]</th> <th>Iout [mA]</th> <th>Iin [A]</th> <th>λ</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>Pout [W]</th> <th>Iout [mA]</th> <th>Iin [A]</th> <th>λ</th> <th>Ⓢ1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>45</td> <td>900</td> <td>0.23</td> <td>0.92C</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>70</td> <td>1400</td> <td>0.35</td> <td>0.95</td> <td>-</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> <tr> <td>50</td> <td>1000</td> <td>0.26</td> <td>0.93C</td> <td>-</td> <td>-</td> <td>ON</td> <td>-</td> <td>75</td> <td>1500</td> <td>0.37</td> <td>0.95</td> <td>-</td> <td>ON</td> <td>ON</td> <td>-</td> </tr> <tr> <td>55</td> <td>1100</td> <td>0.28</td> <td>0.93C</td> <td>-</td> <td>-</td> <td>ON</td> <td>-</td> <td>68</td> <td>1600</td> <td>0.34</td> <td>0.94C</td> <td>-</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>60</td> <td>1200</td> <td>0.31</td> <td>0.94C</td> <td>-</td> <td>-</td> <td>ON</td> <td>ON</td> <td>72</td> <td>1700</td> <td>0.36</td> <td>0.95</td> <td>ON</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>65</td> <td>1300</td> <td>0.33</td> <td>0.94C</td> <td>-</td> <td>ON</td> <td>-</td> <td>-</td> <td>76</td> <td>1800</td> <td>0.38</td> <td>0.95</td> <td>ON</td> <td>-</td> <td>-</td> <td>ON</td> </tr> </tbody> </table>	Pout [W]	Iout [mA]	Iin [A]	λ	1	2	3	4	Pout [W]	Iout [mA]	Iin [A]	λ	Ⓢ1	2	3	4	45	900	0.23	0.92C	-	-	-	-	70	1400	0.35	0.95	-	ON	-	ON	50	1000	0.26	0.93C	-	-	ON	-	75	1500	0.37	0.95	-	ON	ON	-	55	1100	0.28	0.93C	-	-	ON	-	68	1600	0.34	0.94C	-	ON	ON	ON	60	1200	0.31	0.94C	-	-	ON	ON	72	1700	0.36	0.95	ON	-	-	-	65	1300	0.33	0.94C	-	ON	-	-	76	1800	0.38	0.95	ON	-	-	ON	     	wire preparation  1.8mm P10,76-1.8 20 SEC.0,9-1.8 20
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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)
335*300*138MM	50PCS	T.B.D	T.B.D	T.B.D

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
2024-02-23	V1.0	Initial release.