



### Constant Current Driver

Model: CCXXWXXXCGA1



Model	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Current	Output Voltage	No load Voltage
CC1W300CGA1	0.06A	5W	0.6-1.2W	0.45	55%	300mA	2-4V	20V
CC1W350CGA1	0.06A	5W	0.7-1.4W	0.45	55%	350mA	2-4V	20V
CC3W200CGA1	0.06A	7W	1.6-3W	0.45	68%	200mA	8-15V	30V
CC3W250CGA1	0.06A	7W	2-3W	0.45	68%	250mA	8-12V	30V
CC3W300CGA1	0.06A	7W	1.5-3W	0.45	68%	300mA	5-10V	25V
CC3W350CGA1	0.06A	7W	1.75-3.15W	0.45	68%	350mA	5-9V	25V
CC3W500CGA1	0.06A	7W	1.5-3.5W	0.45	68%	500mA	3-7V	25V
CC3W700CGA1	0.06A	7W	1.4-2.8W	0.45	65%	700mA	2-4V	20V
CC6W200CGA1	0.11A	10W	3-6W	0.5	74%	200mA	15-30V	50V
CC6W250CGA1	0.11A	10W	3-6W	0.5	74%	250mA	12-24V	50V
CC6W300CGA1	0.11A	10W	3-6W	0.5	74%	300mA	10-20V	35V
CC6W350CGA1	0.11A	10W	2.8-6.3W	0.5	74%	350mA	8-18V	35V
CC6W500CGA1	0.11A	10W	3-6W	0.5	74%	500mA	6-12V	30V
CC6W700CGA1	0.11A	10W	3.5-6.3W	0.5	71%	700mA	5-9V	30V
CC9W150CGA1	0.14A	13W	4.5-8.25W	0.5	80%	150mA	30-55V	70V
CC9W200CGA1	0.14A	13W	5-9W	0.5	80%	200mA	25-45V	60V
CC9W250CGA1	0.14A	13W	5-9W	0.5	80%	250mA	20-36V	50V
CC9W300CGA1	0.14A	13W	4.5-9W	0.5	80%	300mA	15-30V	45V
CC9W350CGA1	0.14A	13W	5.25-8.75W	0.5	80%	350mA	15-25V	40V
CC9W500CGA1	0.14A	13W	4.5-9W	0.5	80%	500mA	9-18V	30V
CC9W700CGA1	0.14A	13W	5.6-8.4W	0.5	78%	700mA	8-12V	25V
CC12W200CGA1	0.16A	16W	7-12W	0.5	80%	200mA	35-60V	75V
CC12W250CGA1	0.16A	16W	7.5-12W	0.5	80%	250mA	30-48V	63V
CC12W300CGA1	0.16A	16W	7.5-12W	0.5	80%	300mA	25-40V	55V
CC12W350CGA1	0.16A	16W	7-11.9W	0.5	80%	350mA	20-34V	50V
CC12W500CGA1	0.16A	16W	6-12W	0.5	80%	500mA	12-24V	40V
CC12W550CGA1	0.16A	16W	6.6-11.55W	0.5	80%	550mA	12-21V	35V
CC12W600CGA1	0.16A	16W	7.2-10.8W	0.5	78%	600mA	12-18V	35V
CC11W700CGA1	0.16A	16W	6.3-11.2W	0.5	78%	700mA	9-16V	30V

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

## 1. Parameters

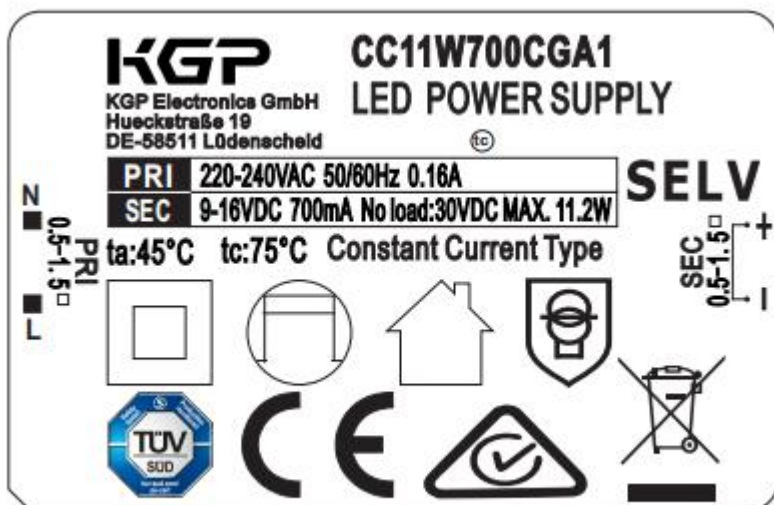
category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC or 230-280VDC
	Frequency	50/60Hz
	Input Current	≤0.16A
	Input Power	≤0.16A (180VAC, full load)
	Power Factor	≥0.45 (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Stand-by power	≤0.5W @230VAC
	Inrush Current	1W: ≤7.52A/470us 3W: ≤8.48A/560us 6W: ≤10.2A/600us 9W: ≤9.8A/720us 12W: ≤15.9A/800us (230VAC, Full-load)
	Connected quantity of 10A Breaker	37pcs/type A ; 59pcs/type B; 94pcs/type C
	Connected quantity of 16A Breaker	60pcs/type A ; 96pcs/type B; 153pcs/type C
	Connected quantity of 20A Breaker	75pcs/type A ; 120pcs/type B;192pcs/type C
	Current Accuracy	±5%
	Max. Output Power	12W
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
Started Delay Time	≤0.5S	
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250μA
Environment	Ta/Operation Temperature	1W,3W,6W series: -20...+50℃ 9W,12W series: -20...+45℃
	Ts/Storage Temperature	-20....+85℃
	Tc/Enclosure Temperature	1W,3W,6W series: 85 ℃ 9W,12W series: 75 ℃
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa

Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.5-1.5 <sup>□</sup>
	SEC Wire preparation	0.5-1.5 <sup>□</sup>
	Dimension	86X32X23mm (L*W*H)
Standards	Certification	TUV、SAA、CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, EN62493:2015, AS61347.2.13:2018, AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN 55015:2013/A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009
	Performance	EN62384
	Surge	L-N/1KV
	Others	RoHS
	Life Time	50,000h @45°C/50°C (Ta) / 75°C (Tc)
	Warranty	5years , F.R. < 10000ppm

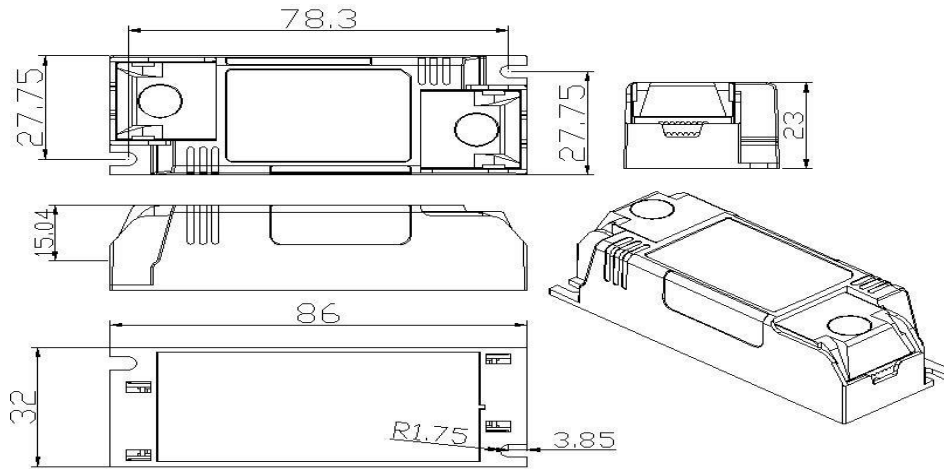
**Remark:**

- 1.All Parameters, if not specified, are measured at 230VAC/50Hz , At full load 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.

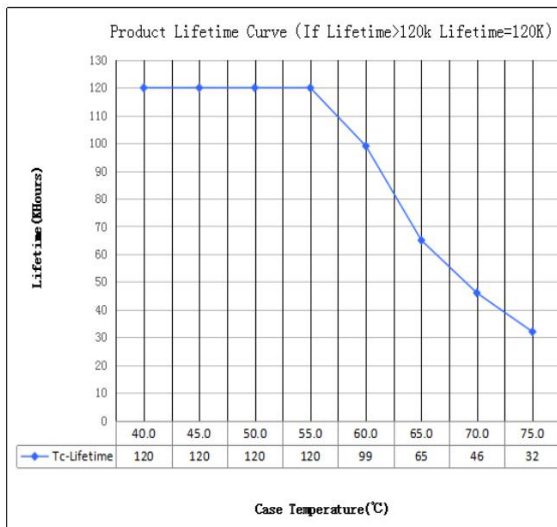
## 2. Label



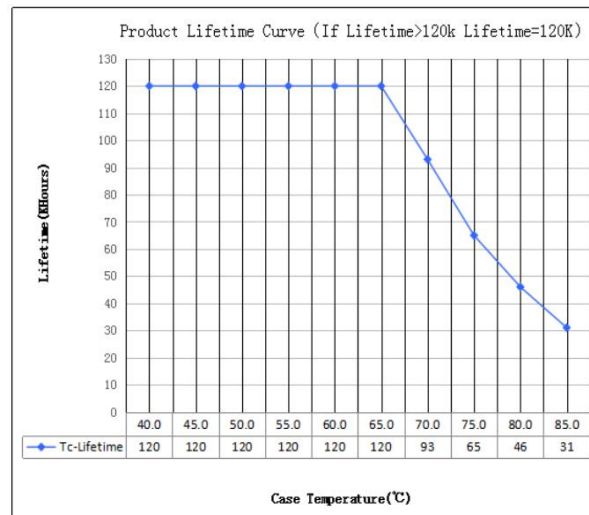
### 3. Dimension (Unit: mm)



### 4. Lifetime curve



9-12W

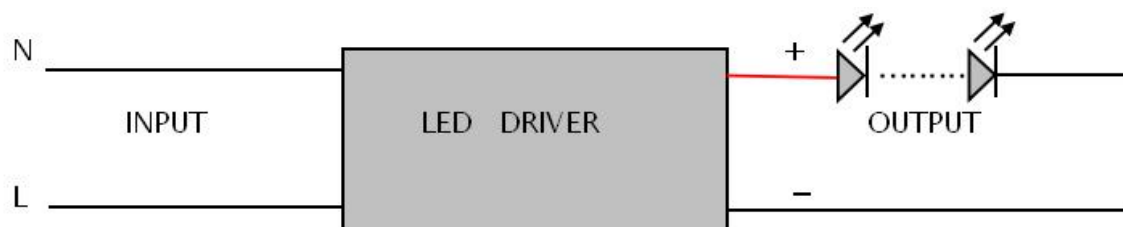


1-6W

### 5. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
450*240*200	210	0.038	7.98	8.78

## 6. Wiring Diagram



## 7. 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.)