

Constant Current Driver

Model:CCXXWXXXXCG PRO



Model	Input Current	Input Power	Output Power Range	PF	Typical Efficiency	Output Current	Output Voltage	No load Voltage
CC24W450-600CG PRO	0.12A	20.5W	11.3-18W	0.90	92%	450mA	25-40V	55V
	0.13A	22.5W	12.5-20W	0.92	92.5%	500mA		55V
	0.14A	25.0W	13.8-22W	0.92	92.5%	550mA		55V
	0.15A	27.0W	15-24W	0.95	93%	600mA		55V
CC32W650-800CG PRO	0.17A	29.0W	16.3-26W	0.90	92.5%	650mA	25-40V	55V
	0.18A	31.5W	17.5-28W	0.92	93%	700mA		55V
	0.19A	33.0W	18.8-30W	0.95	93%	750mA		55V
	0.2A	35.5W	20-32W	0.95	93.5%	800mA		55V
CC40W850-1000CG PRO	0.21A	37.5W	21.3-34W	0.92	93.5%	850mA	25-40V	55V
	0.23A	40.0W	22.5-36W	0.95	93.5%	900mA		55V
	0.24A	42.0W	23.8-38W	0.95	94%	950mA		55V
	0.25A	44.5W	25-40W	0.95	94%	1000mA		55V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 230-280VDC
	Frequency	50/60Hz
	Input Current	≤0.15A(CC24W450-600CG PRO 230VAC, full load) ≤0.2A(CC32W650-800CG PRO 230VAC, full load) ≤0.25A(CC40W850-1000CG PRO 230VAC, full load)
	Input Power	≤27W(CC24W450-600CG PRO 230VAC, full load) ≤35.5W(CC32W650-800CG PRO 230VAC, full load) ≤44.5W(CC40W850-1000CG PRO 230VAC, full load)
	Power Factor	≥0.90(CC24W450-600CG PRO 230VAC, full load) ≥0.90(CC32W650-800CG PRO 230VAC, full load) ≥0.92(CC40W850-1000CG PRO 230VAC, full load)
	THD	≤15%(230VAC, full load)

	No-load Power Consumption	≤0.5W
Output	Current Accuracy (@CC24W450-600CG PRO)	±6% (450/500mA @220-240VAC) ±5% (550/600mA @220-240VAC)
	Current Accuracy (@CC32W650-800CG PRO)	±5% (650/700mA @220-240VAC) ±6% (750/800mA @220-240VAC)
	Current Accuracy (@CC40W850-1000CG PRO)	±5% (850/900/950/1000mA @220-240VAC)
	Max. Output Power	24W (@CC24W450-600CG PRO) 32W (@CC32W650-800CG PRO) 40W (@CC40W850-1000CG PRO)
	Current Ripple(< 120 Hz)	±5%(Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	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	I/P to O/P , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250 μ A
Environment	Ta/Operation Temperature	-20...+45°C
	Ts/Storage Temperature	-20...+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%...90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in & Independent
	PRI Wire preparation	0.75-1.5□ (solid core and stranded 8-10mm) 0.5-1.5□ (solid core and stranded 8-10mm)
	SEC Wire preparation	0.5-1.5□(solid core and stranded 8-10mm)
	Dimension	Independent version:138.7*31*21.5mm (L*W*H) built-in type:118.3*31*21.5mm (L*W*H)
Standards	Certification	TUV SAA CCC CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015, AS/NZS IEC61347.2.13:2013, AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/1.5KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @55°C (Ta)
	Warranty	5years, F.R.<10000ppm

Noise	$\leq 24\text{dB@Background noise} \leq 18\text{dB}$, Interval $\geq 15\text{cm}$ @half load-full load
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Remark:

- All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
- 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. Connected quantities of different current Breake

CC24W450-600CG PRO

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	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		32	47	57	64	90	@230VAC	15	150
TYPE C		54	78	91	108	150			
TYPE D		67	87	108	134	170			

CC32W650-800CG PRO

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	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		18	23	28	36	45	@230VAC	30	150
TYPE C		30	39	48	60	75			
TYPE D		50	66	80	100	127			

CC40W850-1000CG PRO

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	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	25	30	38	@230VAC	35	150us
TYPE C		25	33	41	50	64			
TYPE D		40	53	65	80	103			

3. Label

KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
CC40W850-1000CG PRO
Constant Current Type for LED only

Un= 220-240VAC In= 0.25A Max. fn= 50/60Hz •tc:80°C
Iout= 850-1000mA Uout= 25-40VDC Pout= 40W Max.
No load:55VDC Max. ta:-20...55°C

Pout(w)	Iout(mA)	λ	1	2
34	850	0.92C	-	-
36	900		ON	-
38	950	0.95	-	ON
40	1000		ON	ON

CE, SELV, RoHS, Energy Star, HomePlug icons

wire preparation 8mm
PRI: 0.75-1.5°
SEC: 0.5-1.5°

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LED Driver
CC32W650-800CG PRO
Constant Current Type for LED only

Un= 220-240VAC In= 0.2A Max. fn= 50/60Hz •tc:75°C
Iout= 650-800mA Uout= 25-40VDC Pout= 32W Max.
No load:55VDC Max. ta:55°C

Pout(w)	Iout(mA)	λ	1	2
26	650	0.90C	-	-
28	700	0.92C	ON	-
30	750		-	ON
32	800	0.95	ON	ON

CE, SELV, RoHS, Energy Star, HomePlug icons

wire preparation 8mm
PRI: 0.75-1.5°
SEC: 0.5-1.5°

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LED Driver
CC24W450-600CG PRO
Constant Current Type for LED only

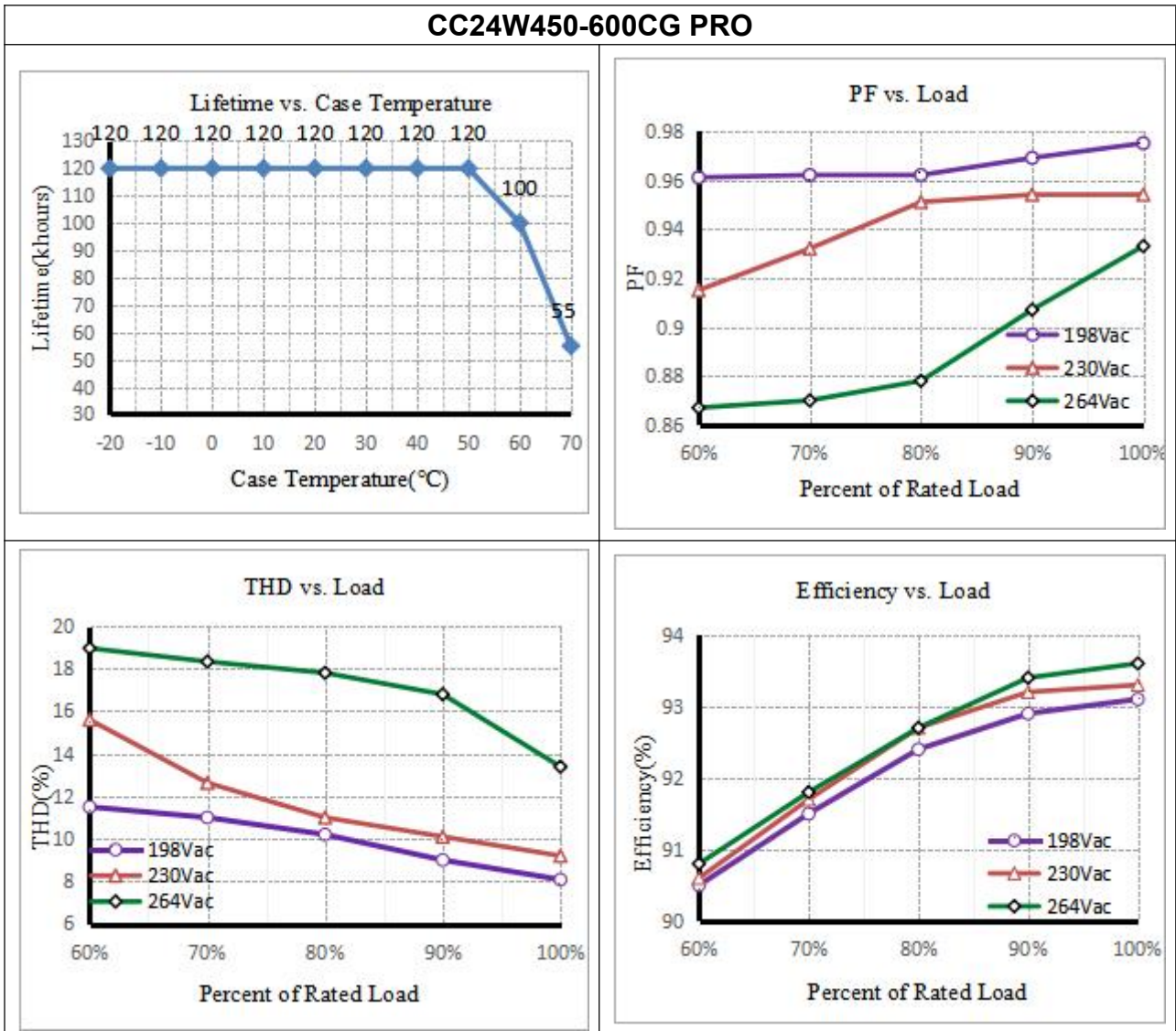
Un= 220-240VAC In= 0.15A Max. fn= 50/60Hz •tc:70°C
Iout= 450-600mA Uout= 25-40VDC Pout= 24W Max.
No load:55VDC Max. ta:-20...55°C

Pout(w)	Iout(mA)	λ	1	2
18	450	0.90C	-	-
20	500		ON	-
22	550	0.92C	-	ON
24	600	0.95	ON	ON

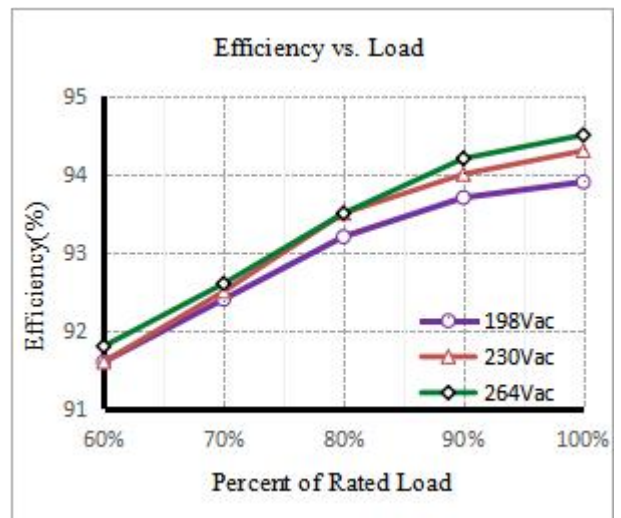
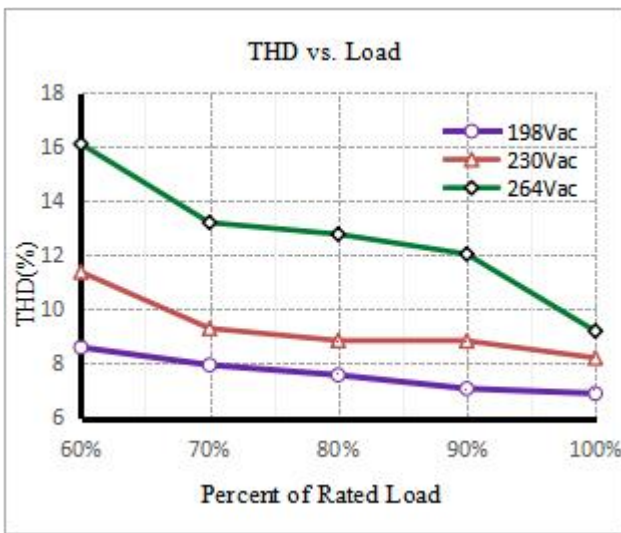
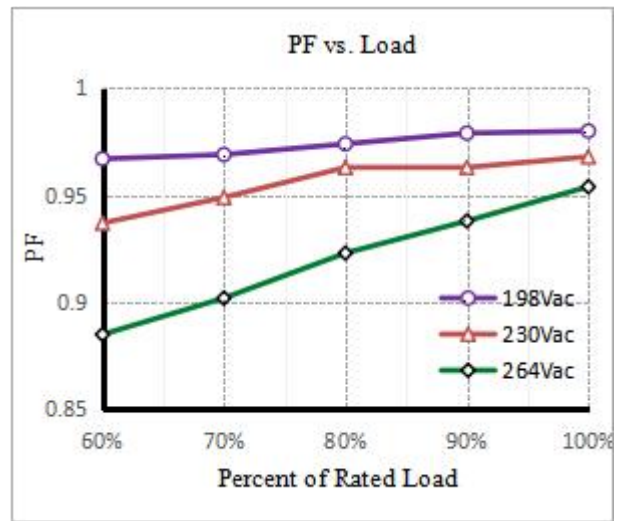
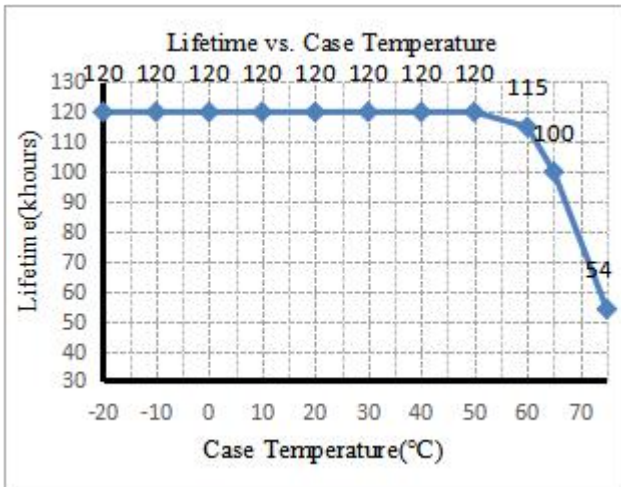
CE, SELV, RoHS, Energy Star, HomePlug icons

wire preparation 8mm
PRI: 0.75-1.5°
SEC: 0.5-1.5°

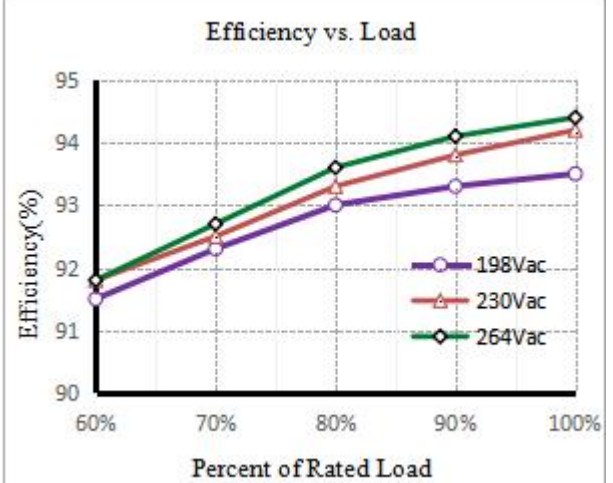
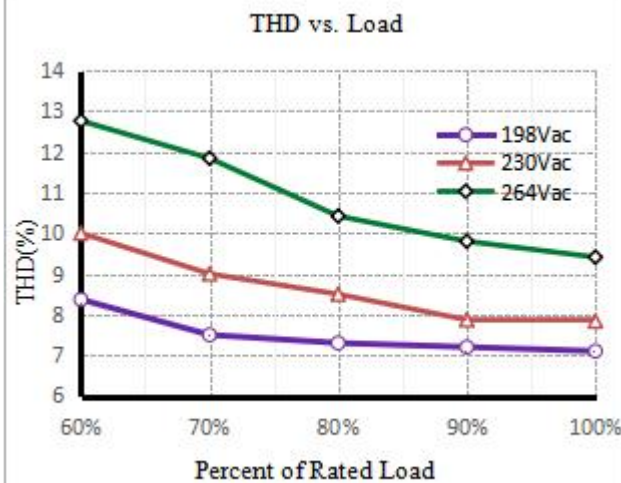
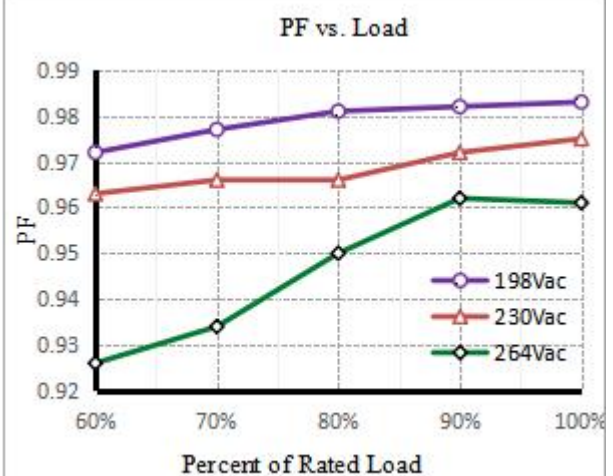
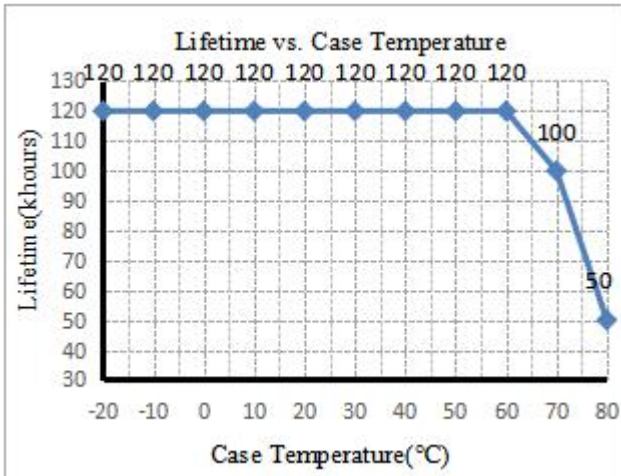
4. Electrical values



CC32W650-800CG PRO

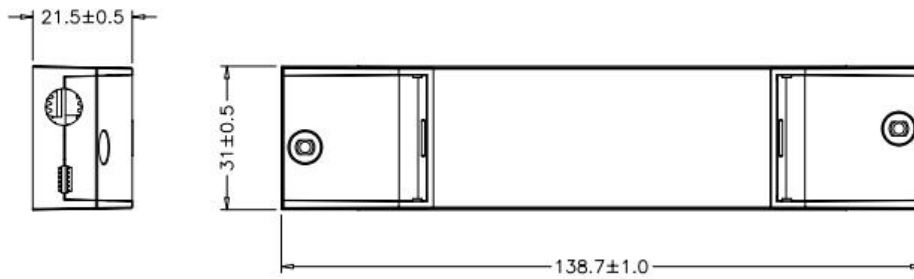


CC40W850-1000CG PRO

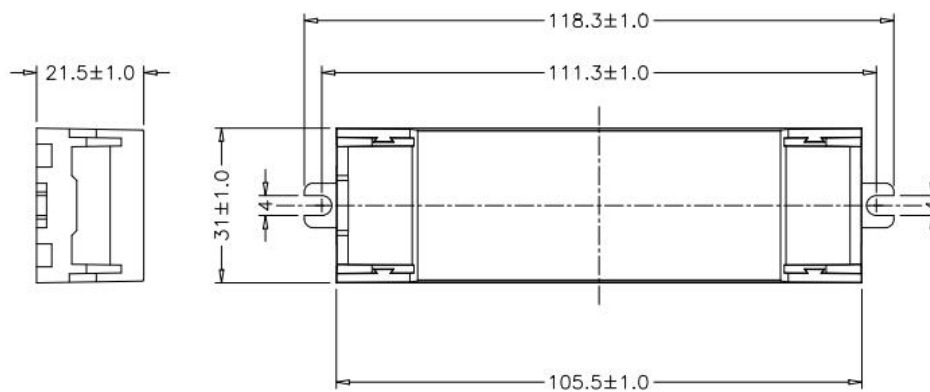


5. Dimension

Independent type:



Built in type:



6. Packing information

Independent type:

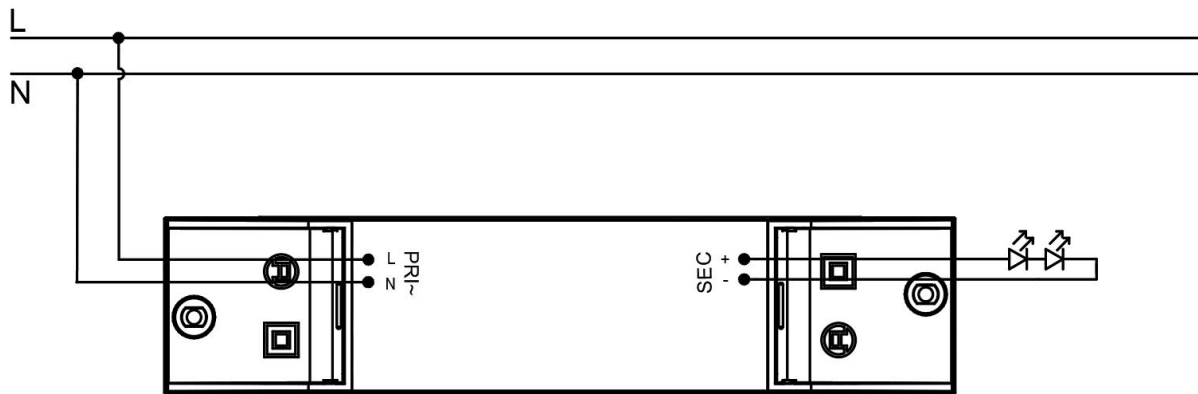
Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC24W450-600CG PRO	White	380*250*155	95	0.083	7.89	8.39
	CC32W650-800CG PRO						
	CC40W850-1000C G PRO						

Built in type:

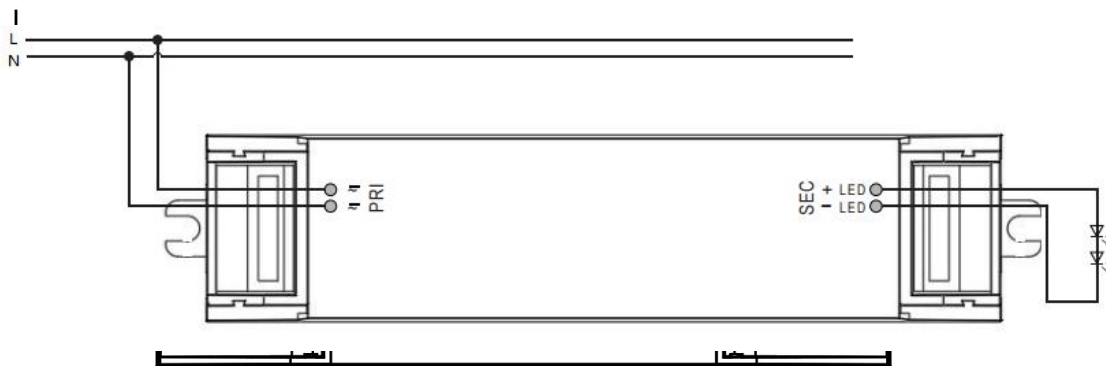
Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC24W450-600CG PRO	White	380*250*155	140	0.072	10.08	10.58
	CC32W650-800CG PRO						
	CC40W850-1000CG PRO						

7. Wiring Diagram

Independent type:



Built in type:



8. 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

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- 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.)

9. REVISION HISTORY

DATE	VER	REMARK
2024-10-18	V1.0	Initial release