KGP

LC50W300-1050

Constant Current Driver

Model:LC50W300-1050

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC50W300-1050	300mA	0.20A	17.48W	6.00-15.00W	0.86	85.8%	20-50V	60V
	350mA	0.21A	20.23W	7.00-17.50W	0.87	86.5%	20-50V	60V
	400mA	0.22A	22.99W	8.00-20.00W	0.88	87.0%	20-50V	60V
	450mA	0.23A	25.71W	9.00-22.50W	0.89	87.5%	20-50V	60V
	500mA	0.24A	28.47W	10.00-25.00W	0.90	87.8%	20-50V	60V
	550mA	0.25A	31.25W	11.00-27.50W	0.91	88.0%	20-50V	60V
	600mA	0.26A	34.09W	12.00-30.00W	0.92	88.0%	20-50V	60V
	650mA	0.27A	36.93W	13.00-32.50W	0.93	88.0%	20-50V	60V
	700mA	0.28A	39.77W	14.00-35.00W	0.94	88.0%	20-50V	60V
	750mA	0.29A	42.61W	15.00-37.50W	0.94	88.0%	20-50V	60V
	800mA	0.30A	45.45W	16.00-40.00W	0.95	88.0%	20-50V	60V
	850mA	0.31A	46.36W	17.00-40.80W	0.95	88.0%	20-48V	60V
	900mA	0.32A	48.54W	18.00-43.20W	0.95	89.0%	20-48V	60V
	950mA	0.33A	51.24W	19.00-45.60W	0.95	89.0%	20-48V	60V
	1000mA	0.34A	53.93W	20.00-48.00W	0.96	89.0%	20-48V	60V
	1050mA	0.35A	56.62W	21.00-50.40W	0.96	89.0%	20-48V	60V

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

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

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
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Input Current	≤0.35A max
	Input Power	≤56.6W max
	Power Factor	≥0.96 (230VAC，full load)
	THD	≤8.5% (230VAC，full load)
	No-load Power Consumption	≤0.50W (230VAC，full load)
	Inrush Current	≤22A/16us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	9pcs/type A ;14pcs/type B ;23pcs/type C 14pcs/type A ;23pcs/type B ;36pcs/type C 18pcs/type A ;28pcs/type B ;45pcs/type C
Output	Output Voltage	20-50VDC@300-800mA 20-48VDC@850-1050mA
	No Load Voltage (Uout)	60VDC Max.
	Output Current	300-1050mA (Factory set current of 300mA)
	Max. Output Power	50.4W
	Efficiency	≥89% (230VAC，full load@max current)
	Output LF current ripple (< 120 Hz)	± 3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	Output PstLM (at full load)	≤1
	Output SVM (at full load)	≤0.4
	Starting Time（AC mode）	≤0.5S (230VAC，full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S,1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC L/N to PE
	Leakage current	< 700μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25….+50℃
	Ts/Storage Temperature	-25….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa

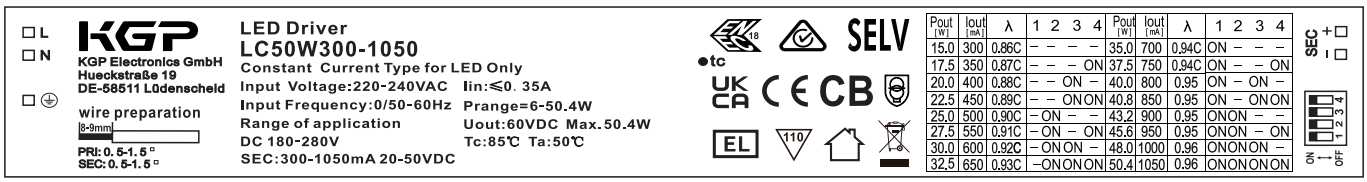
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□ / 8-9mm
	SEC Wire preparation	0.5-1.5□ / 8-9mm
	Dimension	280*29.4*21mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/UKCA/CB
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017;IEC 61347-2-13:2014; IEC 61347-1:2015
	EMC Standards	AS/NZS CISPR 15:2011； AS CISPR 15:2017 ;
	Performance	EN 62384
	Surge	L-N/1KV （L/N)-PE/2KV
Others	RoHS	2011/65/EU
	Life Time	50000h Tc=85℃
		75000h Tc=80℃
		100000h Tc=75℃
	Warranty	5years， F.R. < 10000ppm

Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ 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.

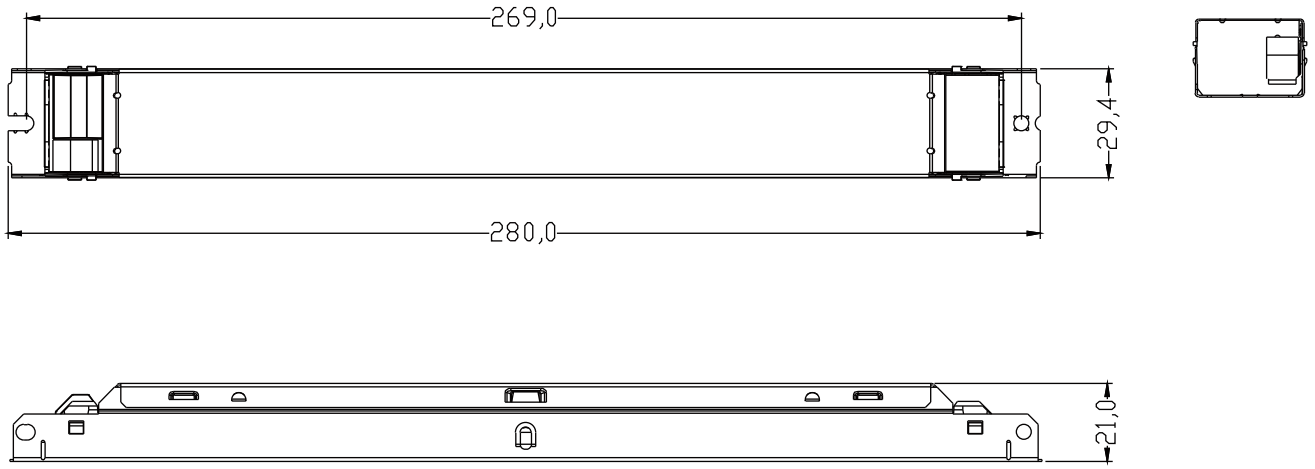
2. Label



3. Output Current Setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

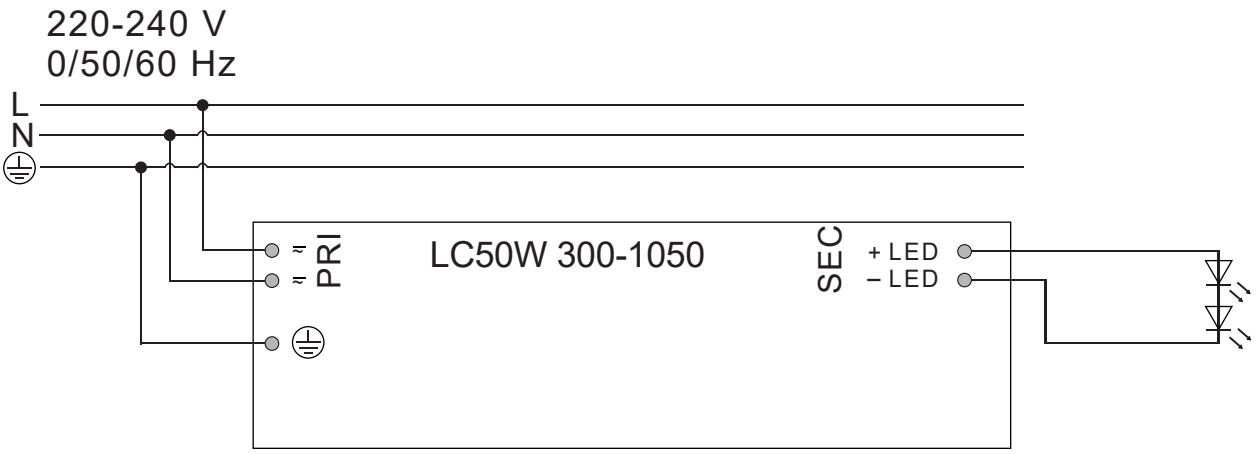
4. Dimension （Unit：mm）



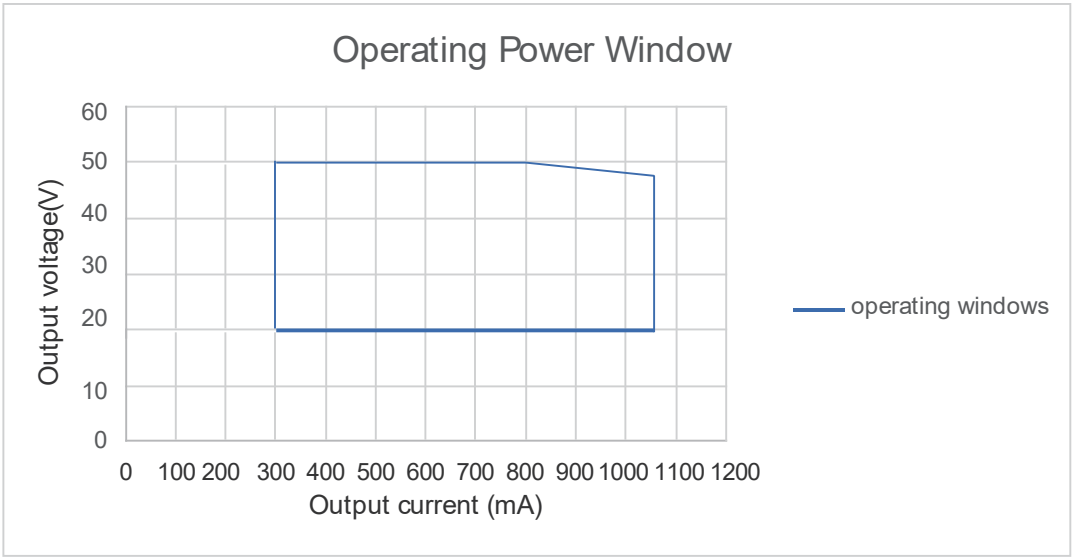
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

5. Installation / wiring

Circuit diagram

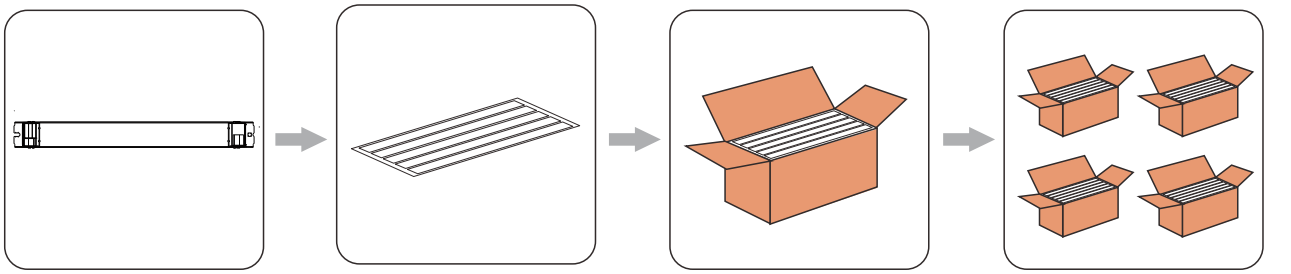


6. Output Power Window



KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

7. Packing information



Product | Plastic paper | 5 sets X 4th floor = 20 sets/box | 20sets/box*4boxs=80pcs/Carton

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
325*303*213	80	0.180	13.18	14.53

8. REVISION HISTORY

Date	Revision	Remark
2023.11.02	V0.01	update images, Packing information

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid