NEXIVO
by KGP Electronics GmbH

CC28W100-800-NX

Constant Current Driver

Model:CC28W100-800-NX

Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
CC28W100-800-NX	157890	100mA	0.04A	5.40W	0.30-4.60W	0.16-0.57	83%	3-46V	60V Max.
		150mA	0.05A	7.90W	0.50-6.90W	0.19-0.67	86%		
		200mA	0.06A	10.40W	0.60-9.20W	0.24-0.75	87%		
		250mA	0.07A	13.00W	0.80-11.50W	0.26-0.80	87%		
		300mA	0.08A	15.50W	0.90-13.80W	0.29-0.84	88%		
		350mA	0.09A	18.00W	1.10-16.10W	0.32-0.86	88%		
		400mA	0.10A	20.40W	1.20-18.40W	0.34-0.89	89%		
		450mA	0.11A	23.00W	1.40-20.70W	0.36-0.90	89%		
		500mA	0.12A	25.80W	1.50-23.00W	0.38-0.92	88%		
		550mA	0.13A	28.40W	1.70-25.30W	0.39-0.93	88%		
		600mA	0.14A	31.00W	1.80-27.60W	0.40-0.94	88%		
		650mA	0.15A	31.40W	2.00-28.00W	0.42-0.94	88%	3-43V	
		700mA	0.15A	31.80W	2.10-28.00W	0.43-0.94	87%	3-40V	
		750mA	0.15A	31.50W	2.30-27.80W	0.46-0.94	87%	3-37V	
		800mA	0.15A	31.80W	2.40-28.00W	0.48-0.94	87%	3-35V	

*** 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	198-264VAC

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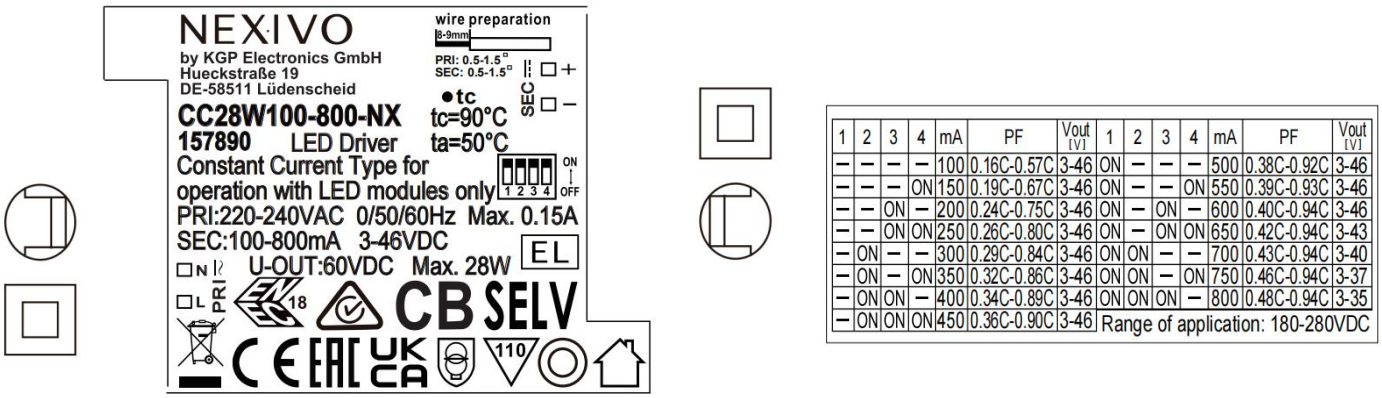
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.15A
	Input Power	≤31.8W
	Power Factor	≥0.94 (230VAC ， full load)
	THD	≤13% (230VAC ， full load)
	No-load Power Consumption	≤0.5W (230VAC ， full load)
	Inrush Current	≤8.2A/16us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	23pcs/type A ; 38pcs/type B ; 60pcs/type C 30pcs/type A; 49pcs/type B ; 79pcs/type C 38pcs/type A; 60pcs/type B ; 97pcs/type C 47pcs/type A; 76pcs/type B ; 121pcs/type C
Output	Output Voltage Range	3-46VDC@100-600mA, 3-43VDC@650mA, 3-40VDC@700mA, 3-37VDC@750mA 3-35VDC@800mA
	No Load Voltage	60VDC Max.
	Output Current	100-800mA (Factory set current of 100mA)
	Max. Output Power	28W
	Efficiency	≥89% @400-450mA，230VAC
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤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
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	<700μA,I/P to O/P @230V input
Environment	Ta/Operation Temperature	-20….+50℃
	Ts/Storage Temperature	-20….+90℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in & Independent
	PRI Wire preparation	0.5-1.5□/ 8-9mm
	SEC Wire preparation	0.5-1.5□/ 8-9mm
	SEC Wire preparation	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters) (the length required by the standard). If there are any data differences, please test according to the length required by the standard)

	Dimension	75*40*21mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/UKCA/EAC/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 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016;
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019;
	Performance	EN62384
	Surge	L/N-PE:2kV; L-N:1kV
Others	RoHS	compliedto2011/65/EU
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	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.		

Distance	15m	30m	50m
Cable selection	0.5mm²	0.75mm²	1.0mm²

2. Label



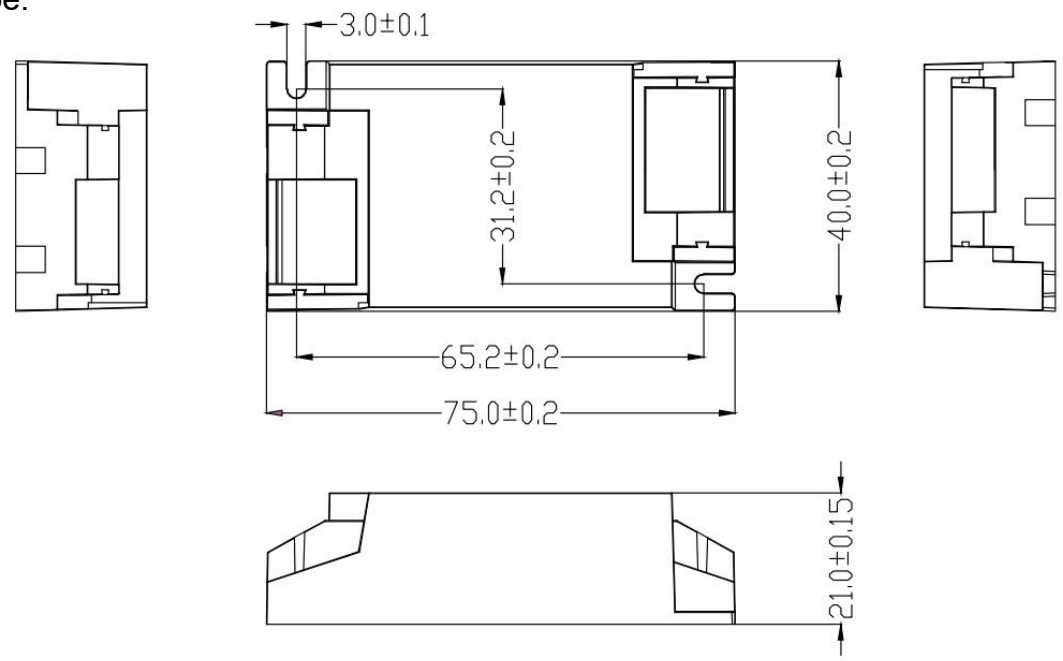
1	2	3	4	mA	PF	Vout [V]	1	2	3	4	mA	PF	Vout [V]
–	–	–	–	100	0.16C-0.57C	3-46	ON	–	–	–	500	0.38C-0.92C	3-46
–	–	–	ON	150	0.19C-0.67C	3-46	ON	–	–	ON	550	0.39C-0.93C	3-46
–	–	ON	–	200	0.24C-0.75C	3-46	ON	–	ON	–	600	0.40C-0.94C	3-46
–	–	ON	ON	250	0.26C-0.80C	3-46	ON	–	ON	ON	650	0.42C-0.94C	3-43
–	ON	–	–	300	0.29C-0.84C	3-46	ON	ON	–	–	700	0.43C-0.94C	3-40
–	ON	–	ON	350	0.32C-0.86C	3-46	ON	ON	–	ON	750	0.46C-0.94C	3-37
–	ON	ON	–	400	0.34C-0.89C	3-46	ON	ON	ON	–	800	0.48C-0.94C	3-35
–	ON	ON	ON	450	0.36C-0.90C	3-46	Range of application: 180-280VDC						

3. Output current setting

Output Current	1	2	3	4
100mA	-	-	-	-
150mA	-	-	-	ON
200mA	-	-	ON	-
250mA	-	-	ON	ON
300mA	-	ON	-	-
350mA	-	ON	-	ON
400mA	-	ON	ON	-
450mA	-	ON	ON	ON
500mA	ON	-	-	-
550mA	ON	-	-	ON
600mA	ON	-	ON	-
650mA	ON	-	ON	ON
700mA	ON	ON	-	-
750mA	ON	ON	-	ON
800mA	ON	ON	ON	-

4. Dimension（Unit：mm）

Built in type:



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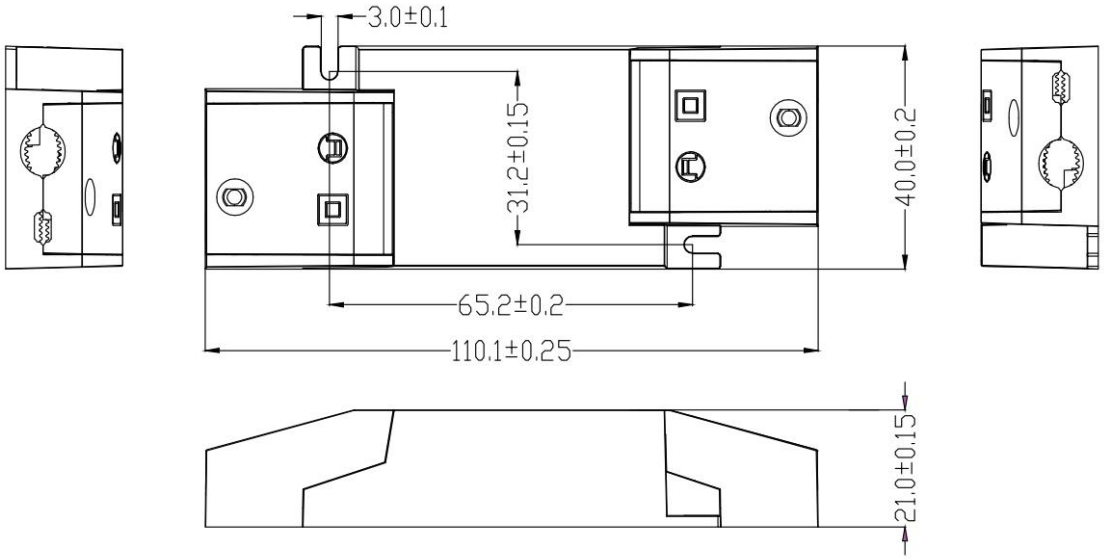
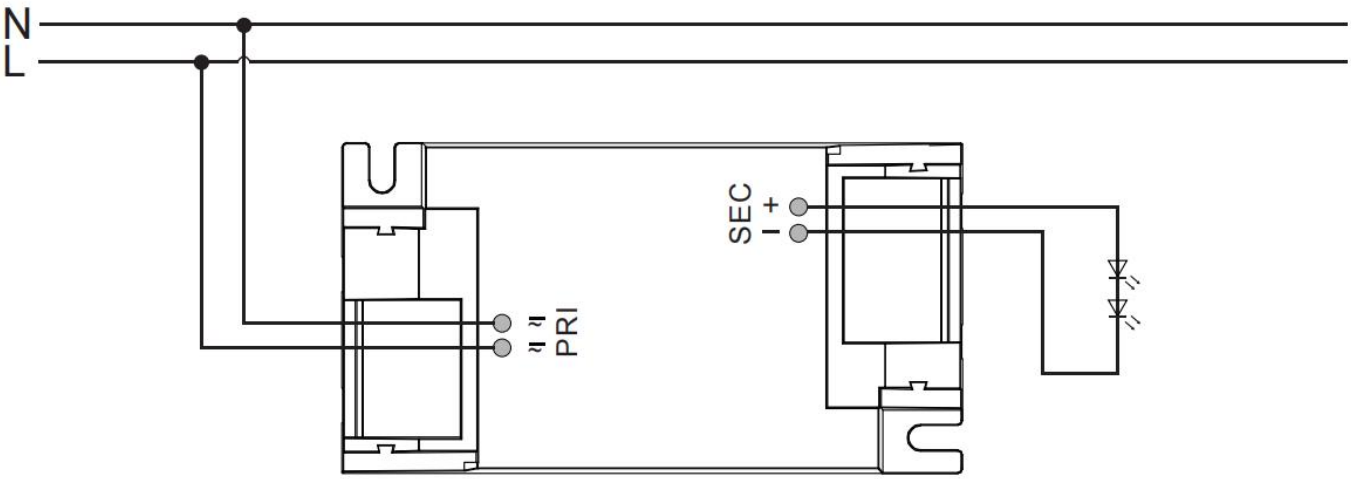
Compatible Strain reliefs:SR_CC20-28

Strain reliefs



5. Wiring Diagram

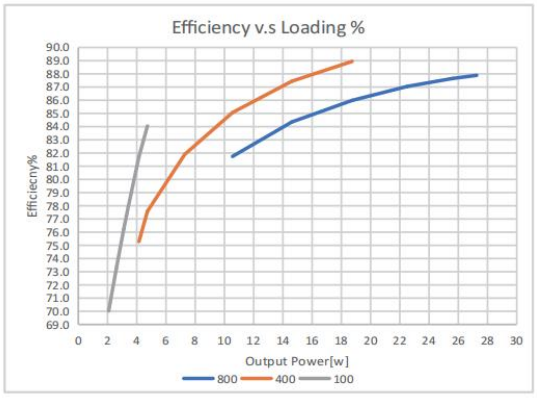
220-240 V
0/50/60 Hz



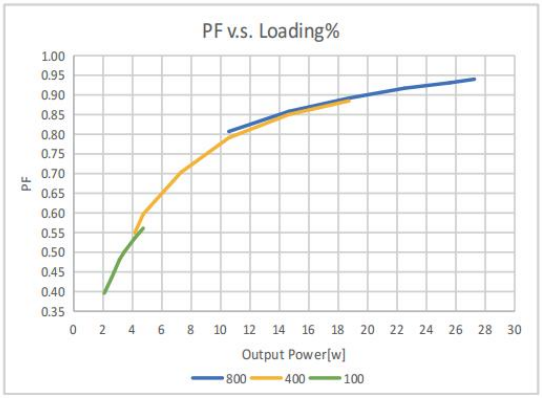
6. Electrical values

1. Operating power windows

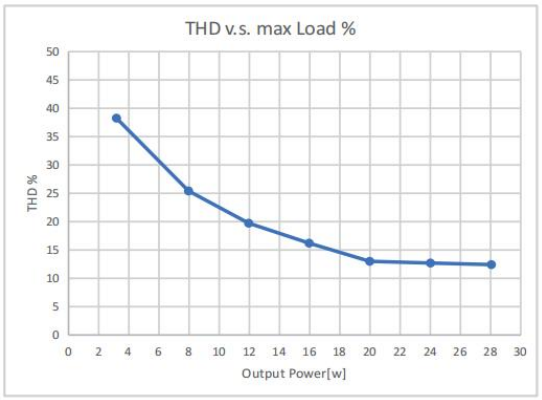
2. Effciency v.s. Load



3. PF v.s. Load

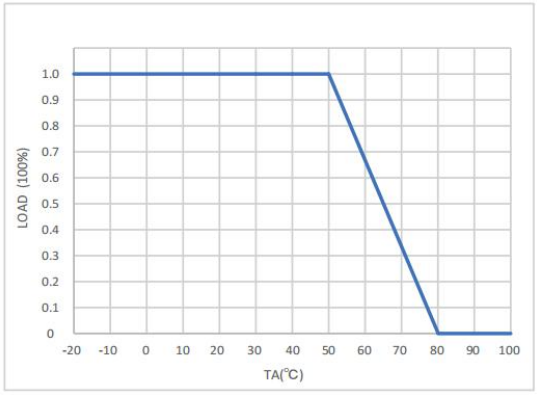


4.THD v.s. Load



5.Life time

6.Derating



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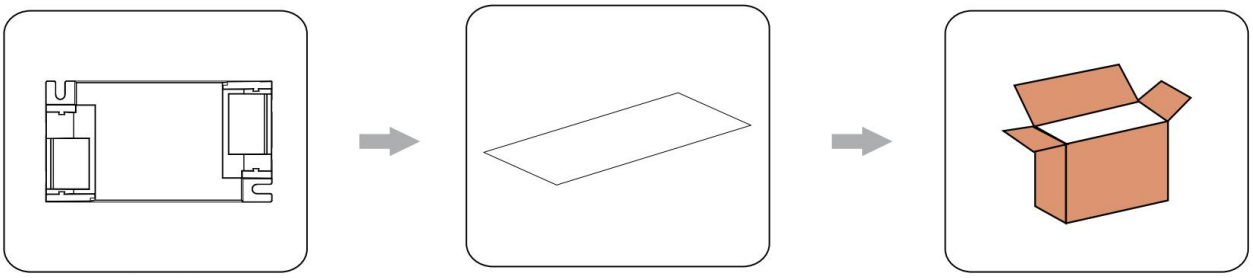
7. Packing information

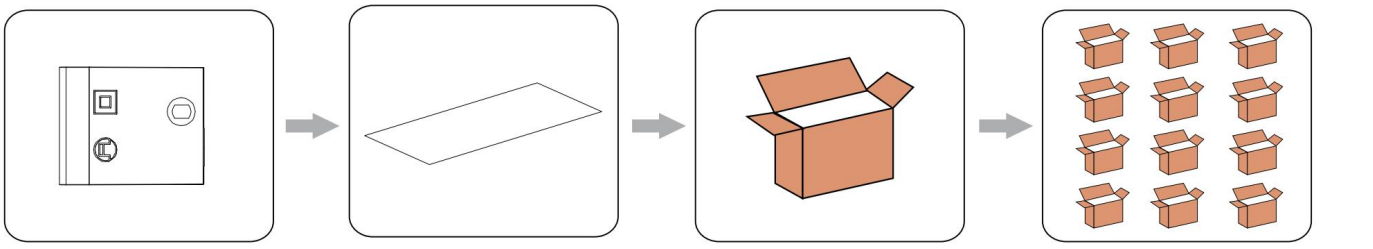
Built-in type



Product | paper partitions linerboard /Plastic paper | 144 per small box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
315*255*150	144	0.08	12.09	12.58

Strain reliefs



Product | paper partitions linerboard /Plastic paper | 50 per small box | 50sets/box*12boxs=600pcs/Carton

Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
180*118*75	50	0.007	0.36	0.47

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
500*195*245	600	0.007	4.22	5.52

8. Ordering Data

Model No	Item code
CC28W100-800-NX	157890
SR_CC20-28	147831

9. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release