



LC(20W-150W)NS

Constant Current Driver

Model:LC(20W-150W)NS



Model	Item Code	Output Power Range	Output Voltage	Output Current	PF	Efficiency	No load voltage
LC20W200-350NS-NX	158110	5.00-21.00W	24-105V	200mA	0.95	89.0%	250V
		6.00-21.00W	24-84V	250mA		88.5%	
		7.20-21.60W	24-72V	300mA		88.0%	
		8.40-21.00W	24-60V	350mA		87.5%	
LC40W200-350NS-NX	158120	8.00-40.00W	40-200V	200mA	0.95	93.5%	250V
		10.00-40.00W	40-160V	250mA		93.0%	
		12.00-40.50W	40-135V	300mA		92.5%	
		14.00-40.30W	40-115V	350mA		92.0%	
LC60W200-350NS-NX	158130	8.00-44.00W	40-200V	200mA	0.95	93.0%	250V
		10.00-55.00W	40-220V	250mA		93.5%	
		12.00-60.00W	40-200V	300mA		93.5%	
		14.00-59.50W	40-170V	350mA		93.5%	
LC80W350-500NS-NX	158140	14.00-80.50W	40-230V	350mA	0.95	94.0%	250V
		16.00-80.10W	40-200V	400mA		93.5%	
		18.00-79.70W	40-177V	450mA		93.0%	
		20.00-80.00W	40-160V	500mA		93.0%	
LC100W350-500NS-NX	158150	14.00-77.00W	40-220V	350mA	0.95	93.5%	250V
		16.00-88.00W		400mA		94.0%	
		18.00-99.00W		450mA		94.5%	
		20.00-100.00W	40-200V	500mA		94.0%	
LC150W550-700NS-NX	158160	22.00-121.00W	40-220V	550mA	0.95	94.5%	250V
		24.00-132.00W		600mA		94.5%	
		26.00-143.00W		650mA		94.5%	
		28.00-149.80W	40-214V	700mA		95.0%	

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

Advantage	Feature	Applicable Luminaires	Applicable Occasions
-Non SELV Constant Current Driver, Insulation Class I -4 Current Setting Via DIP Switch -Bipolar Flicker-Free -IP20	-High Power Factor, High Efficiency, Low THD, Wide Output Range -Supports EL Function (100% Output with DC Input) -5-Year Warranty	-tri-proof light -Linear light	-Interior Lighting -Commercial Lighting -Decorative Lighting

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

1. Parameters

Category	Item	Technical Norm
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	Frequency	0/50-60Hz
	Input Current	≤0.11A(230VAD, full load)@20W
		≤0.21A(230VAD, full load)@40W
		≤0.29A(230VAD, full load)@60W
		≤0.39A(230VAD, full load)@80W
		≤0.49A(230VAD, full load)@100W
		≤0.73A(230VAD, full load)@150W
	Input Power	≤25W(230VAD, full load)@20W
		≤45W(230VAD, full load)@40W
		≤65W(230VAD, full load)@60W
		≤87W(230VAD, full load)@80W
		≤110W(230VAD, full load)@100W
		≤162W(230VAD, full load)@150W
	Power Factor	≥0.95 (230VAC, fullload)
	THD	≤ 15% (230VAC, fullload)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤15A/ 300us (230VAC,Full-load)@20W
		≤20A/ 300us (230VAC,Full-load)@40W
		≤28A/ 300us (230VAC,Full-load)@60W
		≤45A/ 300us (230VAC,Full-load)@80W
		≤60A/ 400us (230VAC,Full-load)@100W
		≤65A/ 400us (230VAC,Full-load)@150W
Output	Output Current	200-350mA @20W(refer to the details on the homepage)
		200-350mA @40W(refer to the details on the homepage)
		200-350mA @60W(refer to the details on the homepage)
		350-500mA @80W(refer to the details on the homepage)
		350-500mA @100W(refer to the details on the homepage)
		550-700mA @150W(refer to the details on the homepage)
	Max. Output Power	21.6W @20W(refer to the details on the homepage)
		40.5W @40W(refer to the details on the homepage)

		60.0W @60W(refer to the details on the homepage)
		80.5W @80W(refer to the details on the homepage)
		100.0W @100W(refer to the details on the homepage)
		149.8W @150W(refer to the details on the homepage)
	Efficiency	≥87.0% @20W(refer to the details on the homepage)
		≥91.5% @40W(refer to the details on the homepage)
		≥92.5% @60W(refer to the details on the homepage)
		≥92.5% @80W(refer to the details on the homepage)
		≥93.5% @100W(refer to the details on the homepage)
		≥94.0% @150W(refer to the details on the homepage)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin) / (Imax+Imin)
	PSTLM	≤ 1
	SVM	≤0.4
	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Started Delay Time	≤ 0.5S (230VAC,Full-load)
	Emergency output coefficient	1
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	/
	Over-temperature protection	Auto Recovery
	Insulation voltage	O/P to PE , 1.75KVac/1min I/P to PE , 1.75KVac/1min
	Insulation resistance	O/P to PE , I/P to PE , >100M ohm @ 500VDC
	Leakage current	I/PtoO/P<0.7mA
Environment	Ta/Operation Temperature	-20...+65℃@20-60W
		-20...+55℃@80-150W
	Ts/Storage Temperature	-25 ... +85℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%.... 90%RH
Construction	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	165*30*21mm(L*W*H)@20W&40W&60W
		195*30*21mm(L*W*H)@80W
		230*30*21mm(L*W*H)@100W&150W
Standards	Certification	CE/ENEC/EL/EAC/UKCA/SAA
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC62384:2020 AS61347.2.13:2018 AS/NZS61347.1:2016IncA1 BS EN61347-1:2015/A1:2021

		BS EN61347-2-13:2014/A1:2017 BS EN62493:2015 BS ENIEC62384:2020
	EMC Standards	EN IEC55015:2019 EN IEC55015:2019/A11:2020 EN IEC61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN IEC61547:2023
	Performance	EN62384:2020
	Surge	L-N:1KV; L/N-PE:2KV
	Others	
	RoHS	Complied to 2011/65/EU
	REACH	EU Regulation (EC) No 1907/2006
	Life Time	50000h Tc=90°C
	Warranty	5years , F.R. <10000PPM
	Noise	≤20dB@Backgroundnoise≤15dB,Interval≥20cm
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 within products again.		

2. Output Current Setting

LC20W200-350NS

Output Current	Output Voltage	Dial 1	Dial 2
350mA	24-60Vdc	ON	ON
300mA	24-72Vdc	OFF	ON
250mA	24-84Vdc	ON	OFF
200mA	24-105Vdc	OFF	OFF

LC40W200-350NS

Output Current	Output Voltage	Dial 1	Dial 2
350mA	40-115Vdc	ON	ON
300mA	40-135Vdc	OFF	ON
250mA	40-160Vdc	ON	OFF
200mA	40-200Vdc	OFF	OFF

LC60W200-350NS

Output Current	Output Voltage	Dial 1	Dial 2
350mA	40-170Vdc	ON	ON
300mA	40-200Vdc	OFF	ON
250mA	40-220Vdc	ON	OFF
200mA	40-220Vdc	OFF	OFF

LC80W350-500NS

Output Current	Output Voltage	Dial 1	Dial 2
500mA	40-160Vdc	ON	ON
450mA	40-177Vdc	OFF	ON
400mA	40-200Vdc	ON	OFF
350mA	40-230Vdc	OFF	OFF

LC100W350-500NS

Output Current	Output Voltage	Dial 1	Dial 2
500mA	40-200Vdc	ON	ON
450mA	40-220Vdc	OFF	ON
400mA	40-220Vdc	ON	OFF
350mA	40-220Vdc	OFF	OFF

LC150W550-700NS

Output Current	Output Voltage	Dial 1	Dial 2
700mA	40-214Vdc	ON	ON
650mA	40-220Vdc	OFF	ON
600mA	40-220Vdc	ON	OFF
550mA	40-220Vdc	OFF	OFF

3. Connected quantities of different current breaker

LC20W200-350NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (μs)
	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		40	52	64	80	100	@230VAC	15	300
TYPE C		64	83	102	128	160			
TYPE D		102	133	164	205	256			

LC40W200-350NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (μs)
	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		30	39	48	60	75	@230VAC	20	300
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

LC60W200-350NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (μs)
	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		21	28	34	43	54	@230VAC	28	300
TYPE C		34	45	55	69	86			
TYPE D		55	71	88	110	137			

LC80W350-500NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (μs)
	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		13	17	21	27	33	@230VAC	45	300
TYPE C		21	28	34	43	53			
TYPE D		34	44	55	68	85			

LC100W350-500NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (µs)
	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		10	13	16	20	25	@230VAC	60	400
TYPE C		16	21	26	32	40			
TYPE D		26	33	41	51	64			

LC150W550-700NS

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current (A)	Time (µs)
	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		9	12	15	18	23	@230VAC	65	400
TYPE C		15	19	24	30	37			
TYPE D		24	31	38	47	59			

4. Label

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	200	44.0	40-220	220-240V	0.11	-20...+55	0.95
ON	OFF	250	49.0	50-160	220-240V	0.11	-20...+55	0.95
OFF	ON	300	21.6	24-72	0/50-60Hz			
ON	ON	350	21.0	24-60				

U_{out}: Max 250VDC

LED Driver
LC20W200-350NS-NX
158110
Constant Current Type For LED modules only Made in China

05 EAC CE UKA EL 110

Output: +, -, ON, OFF

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	200	40.0	50-200	220-240V	0.11	-20...+55	0.95
ON	OFF	250	40.0	50-160	220-240V	0.11	-20...+55	0.95
OFF	ON	300	40.0	50-135	0/50-60Hz			
ON	ON	350	40.0	50-115				

U_{out}: Max 250VDC

LED Driver
LC40W200-350NS-NX
158120
Constant Current Type For LED modules only Made in China

05 EAC CE UKA EL 110

Output: +, -, ON, OFF

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	200	44.0	40-220	220-240V	0.29	-20...+55	0.95
ON	OFF	250	55.0	40-220	220-240V	0.29	-20...+55	0.95
OFF	ON	300	60.0	40-200	0/50-60Hz			
ON	ON	350	59.0	40-170				

U_{out}: Max 250VDC

LED Driver
LC60W200-350NS-NX
158130
Constant Current Type For LED modules only Made in China

05 EAC CE UKA EL 110

Output: +, -, ON, OFF

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	350	80.5	40-230	220-240V	0.39	-20...+55	0.95
ON	OFF	400	80.0	40-200	220-240V	0.39	-20...+55	0.95
OFF	ON	450	79.7	40-177	0/50-60Hz			
ON	ON	500	80.0	40-160				

U_{out}: Max 250VDC
For LED modules only Made in China

LED Driver
LC80W350-500NS-NX
158140
Constant Current Type

05 EAC CE UKA EL 110

Output: +, -, ON, OFF

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	350	77	40-220	220-240V	0.49	-20...+55	0.95
ON	OFF	400	88	40-220	220-240V	0.49	-20...+55	0.95
OFF	ON	450	99	40-220	0/50-60Hz			
ON	ON	500	100	40-200				

U_{out}: Max.250VDC For LED modules only Made in China

LED Driver
LC100W350-500NS-NX
158150
Constant Current Type

05 EAC CE UKA EL 110

Output: +, -, ON, OFF

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	Rated (mA)	Rated (W)	Rated (V)	U _N / f _N	I _N (A)	ta (°C)	λ
OFF	OFF	550	121.0	40-220	220-240V	0.73	-20...+55	0.95
ON	OFF	600	132.0	40-220	220-240V	0.73	-20...+55	0.95
OFF	ON	650	143.0	40-220	0/50-60Hz			
ON	ON	700	149.8	40-214				

U_{out}: Max.250VDC For LED modules only Made in China

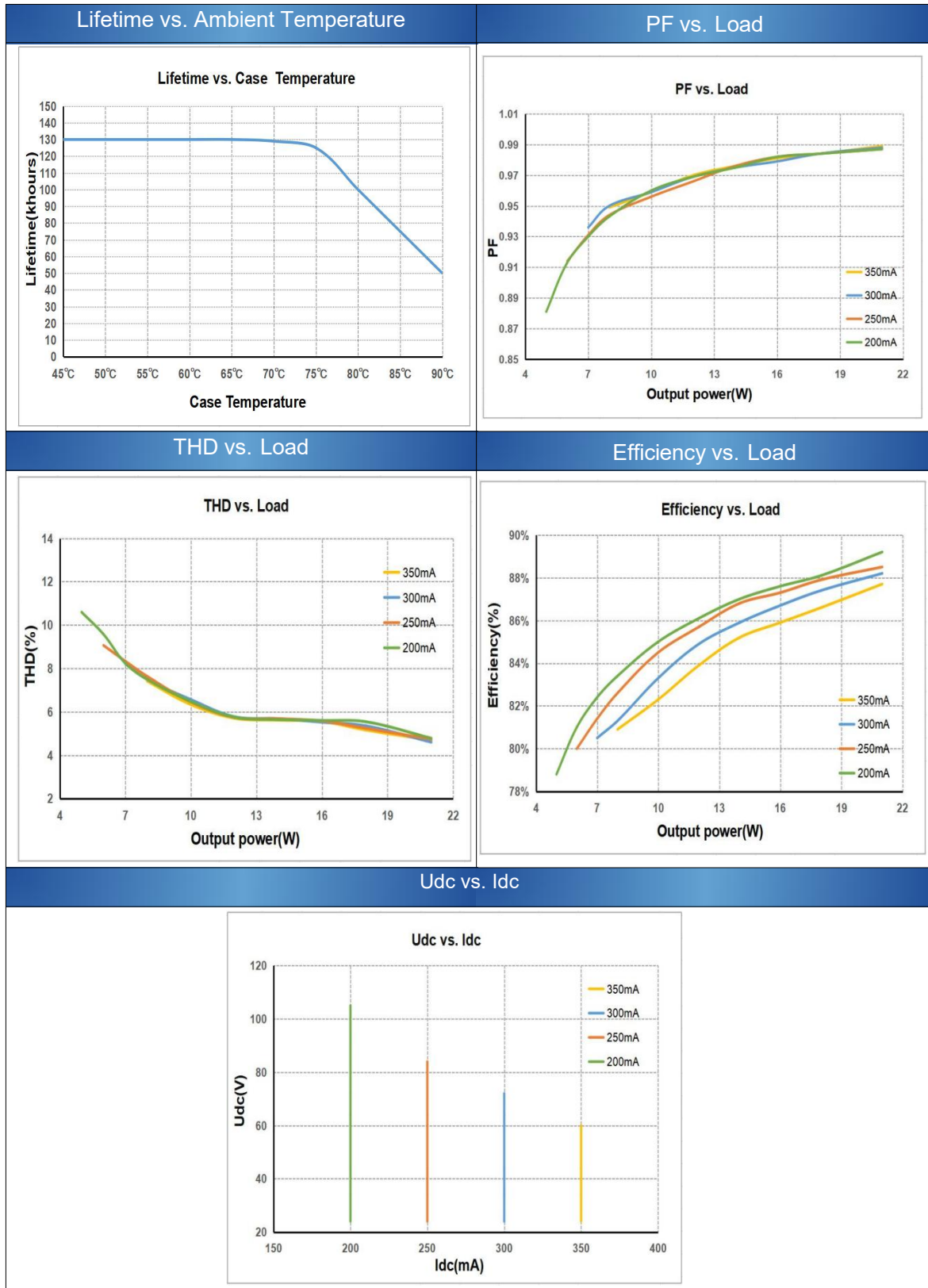
LED Driver
LC150W550-700NS-NX
158160
Constant Current Type

05 EAC CE UKA EL 110

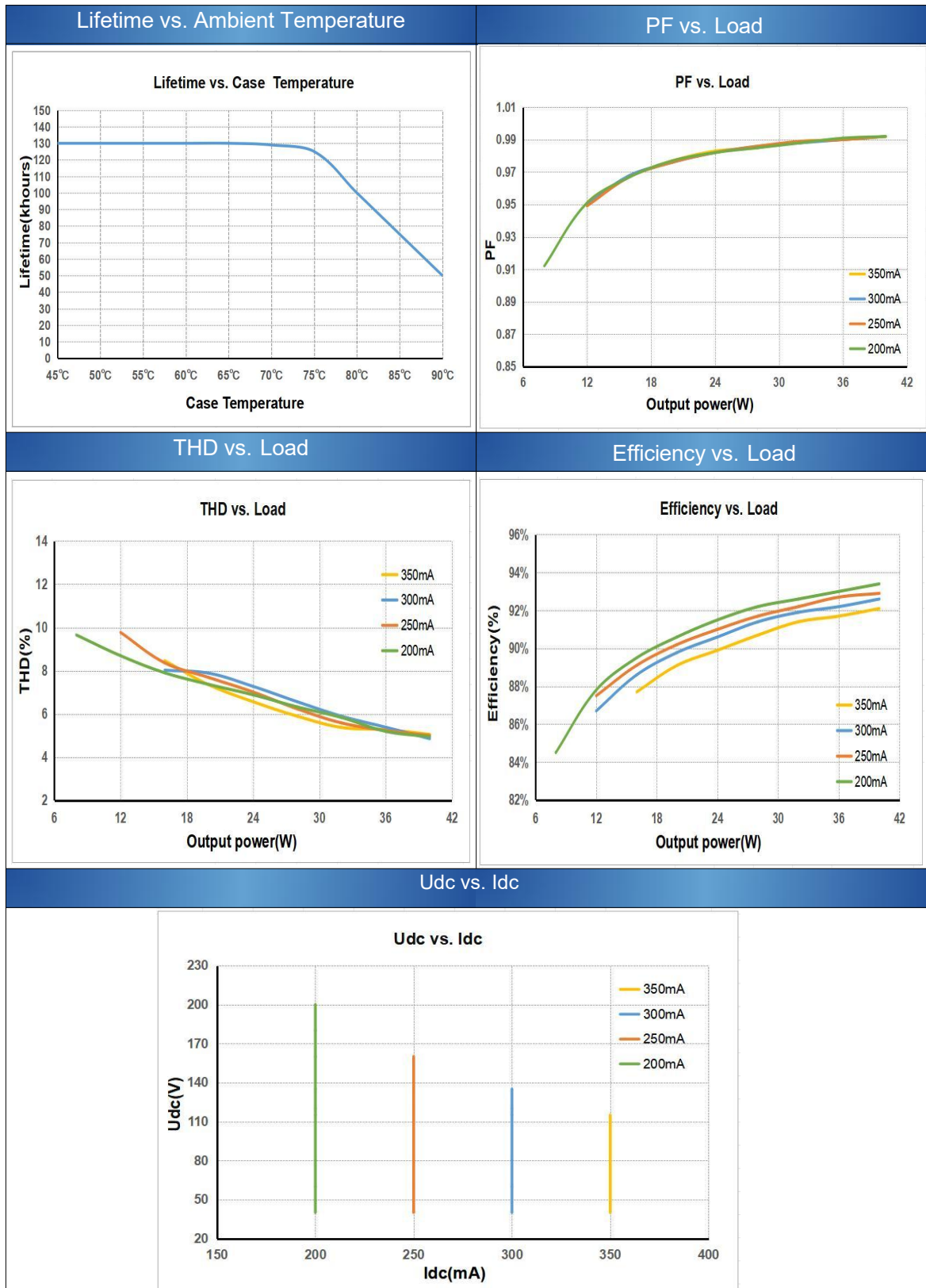
Output: +, -, ON, OFF

5. Electrical values

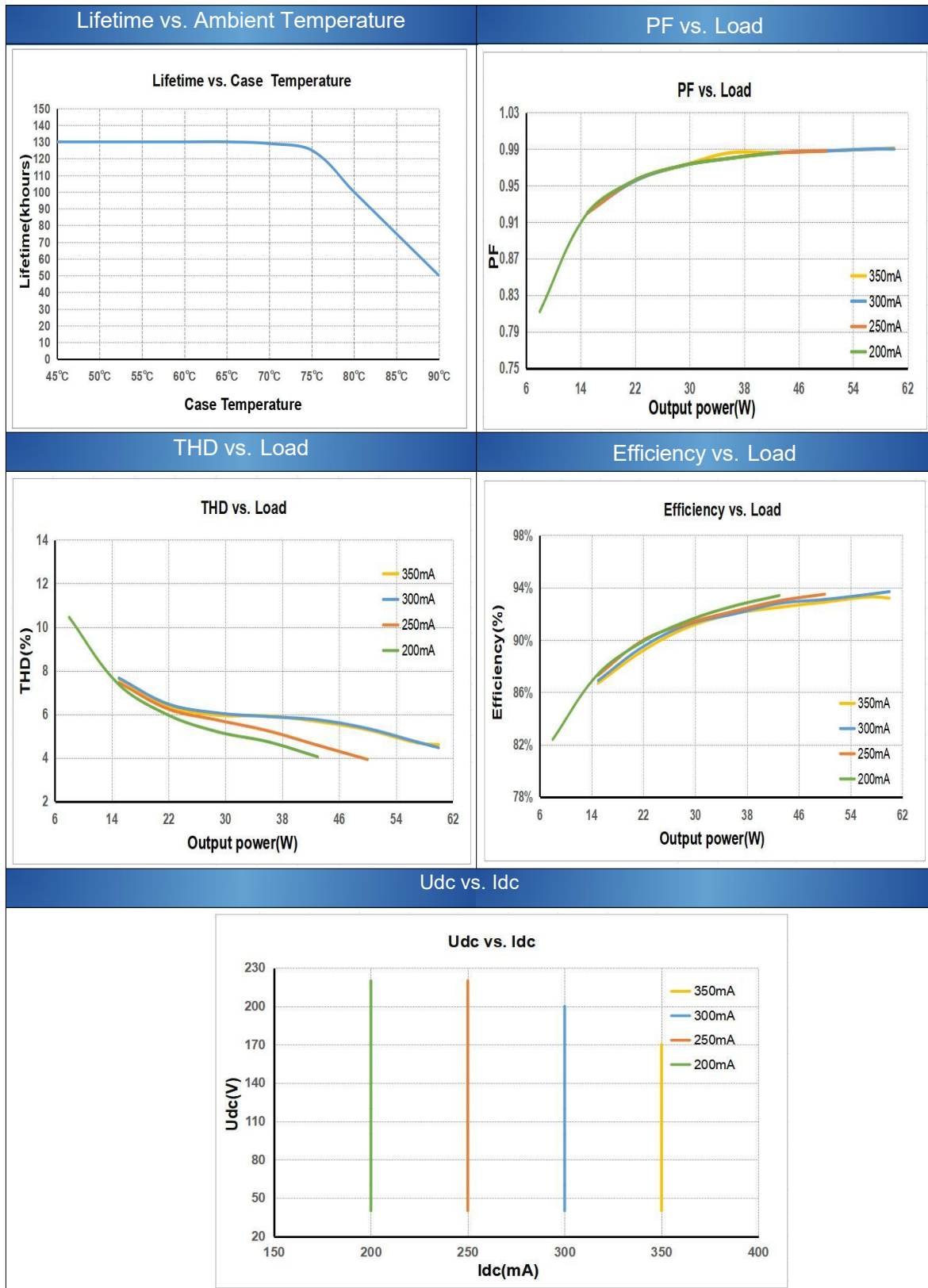
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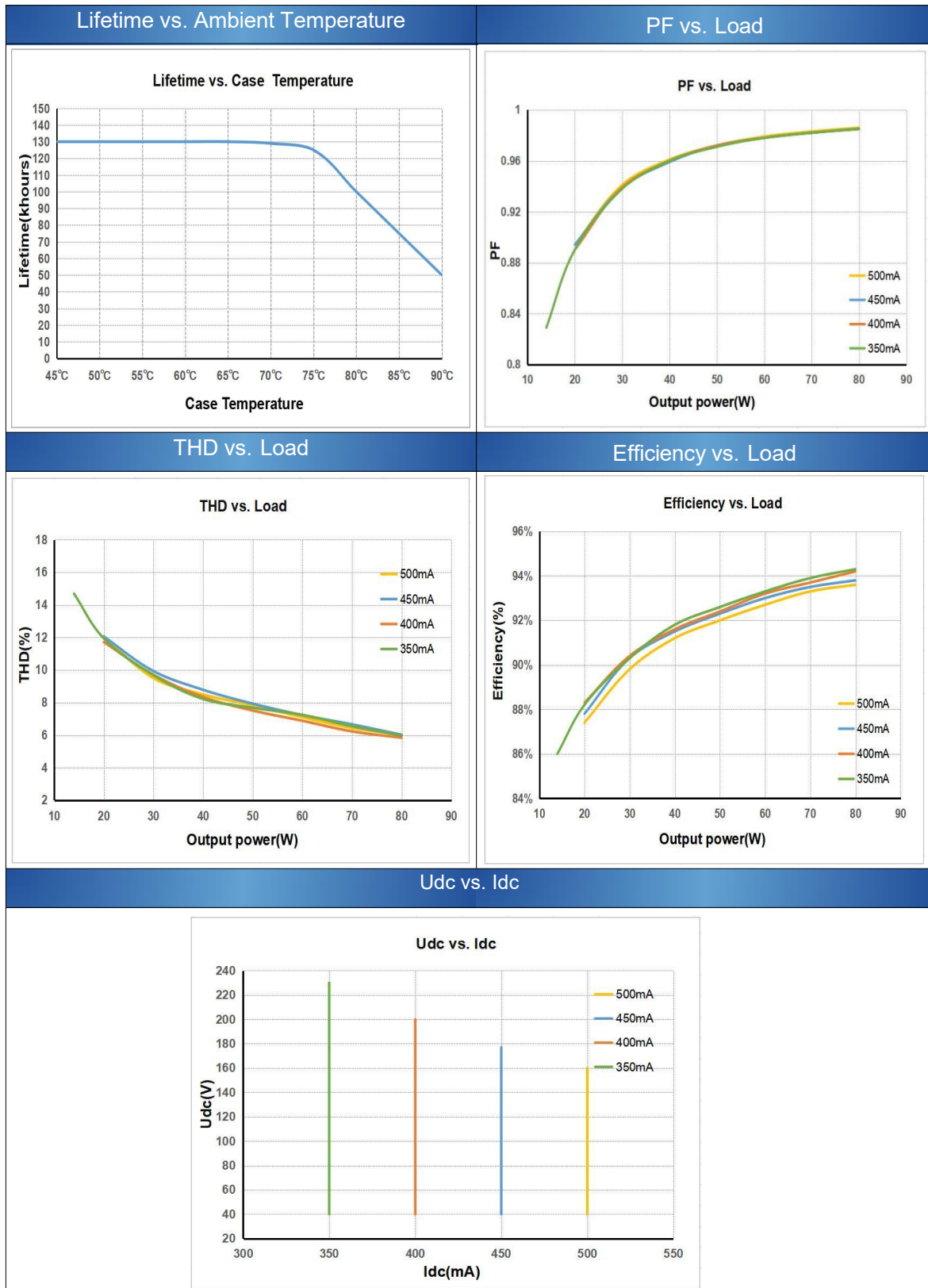
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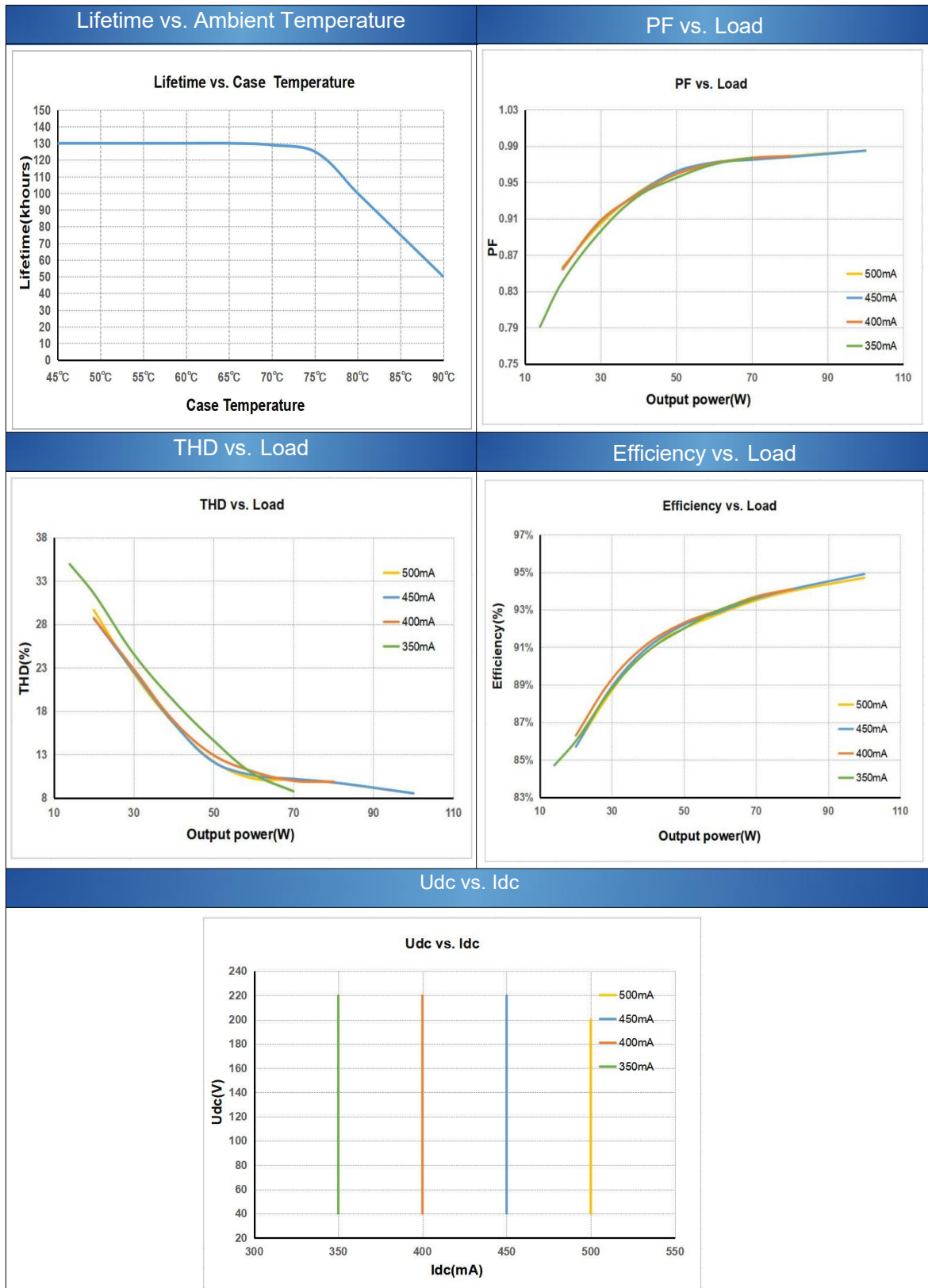
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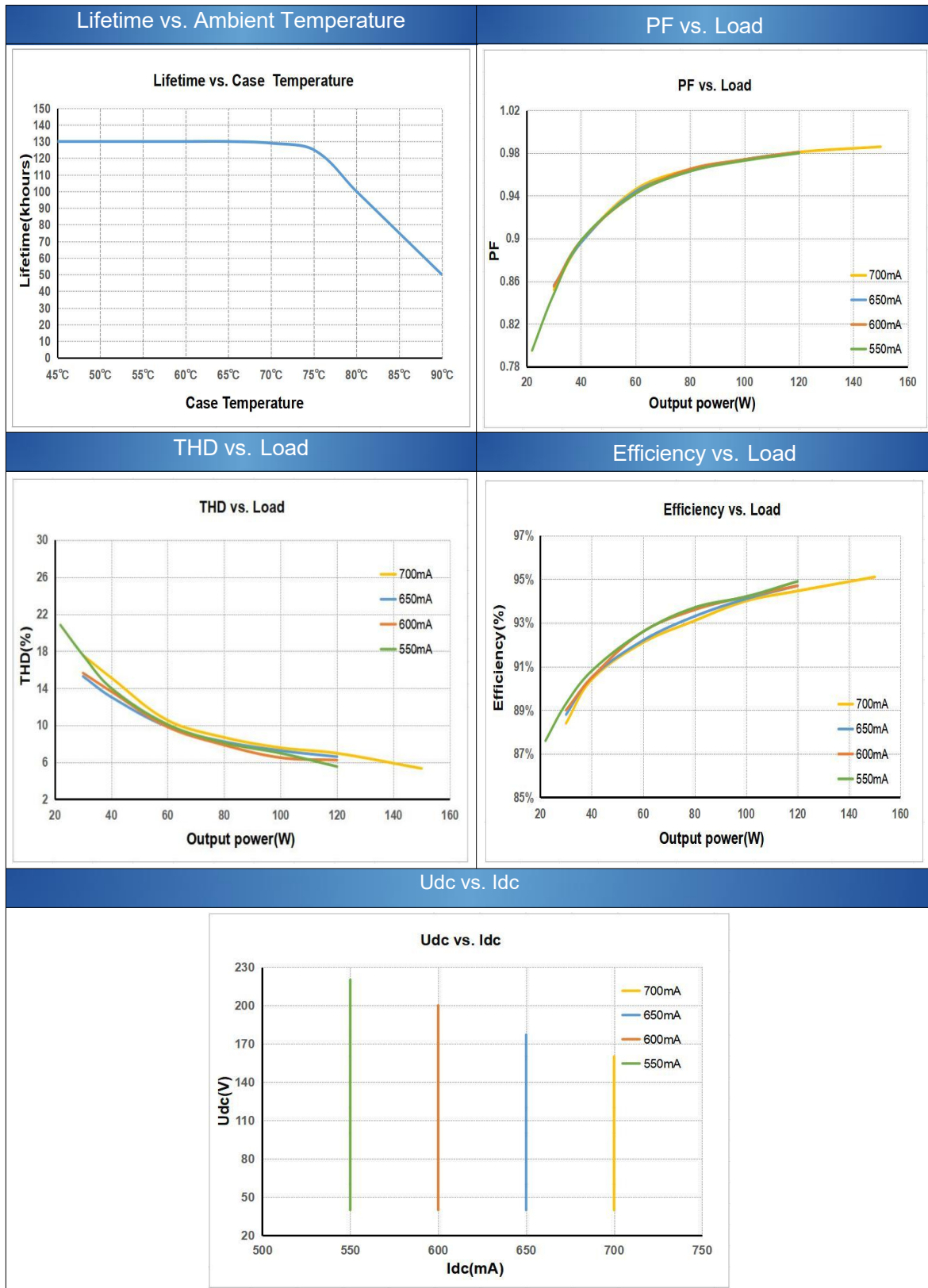
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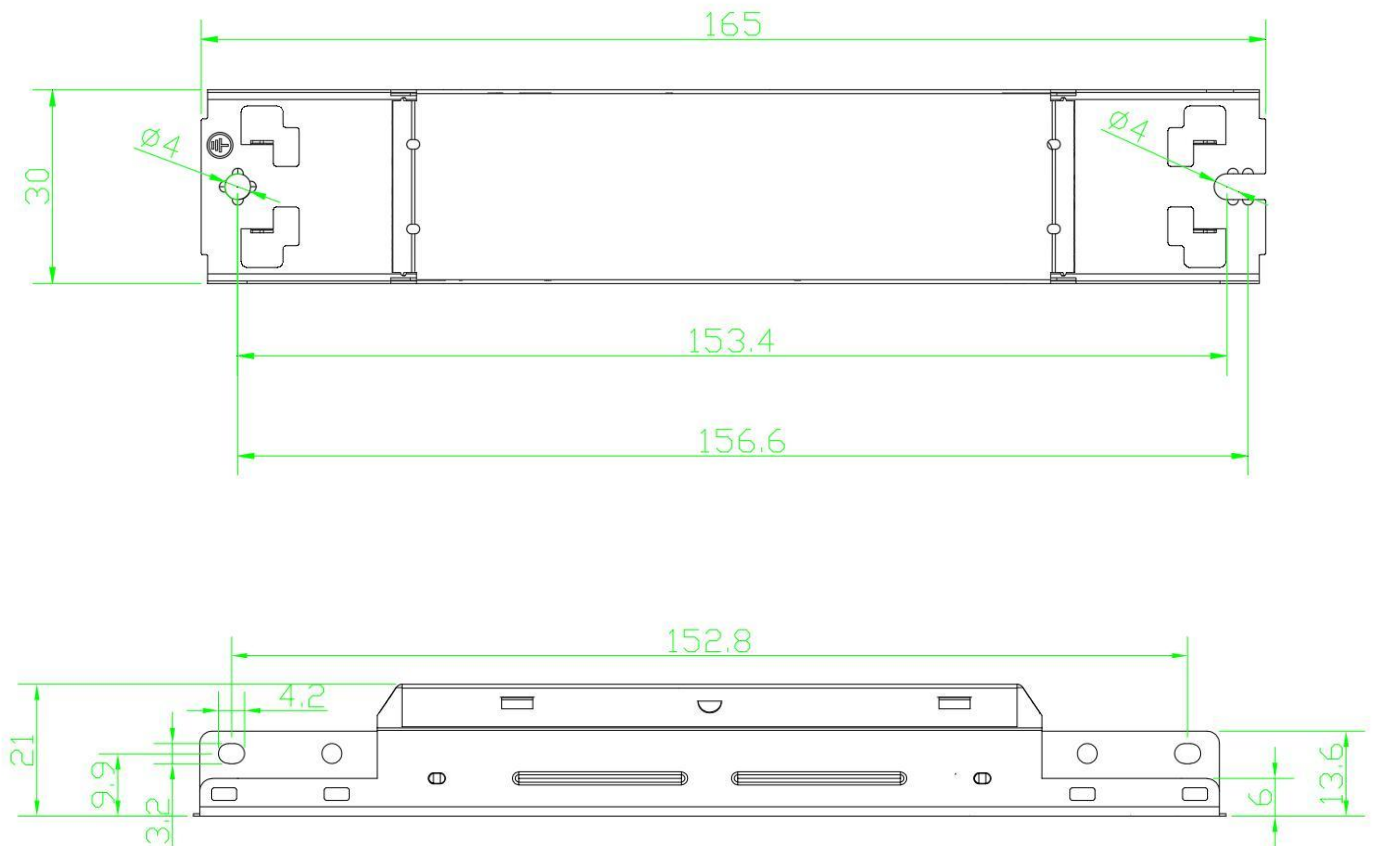
LC100W350-500NS:



LC150W550-700NS:



5. Dimension (Unit: mm) 20W&40W&60W

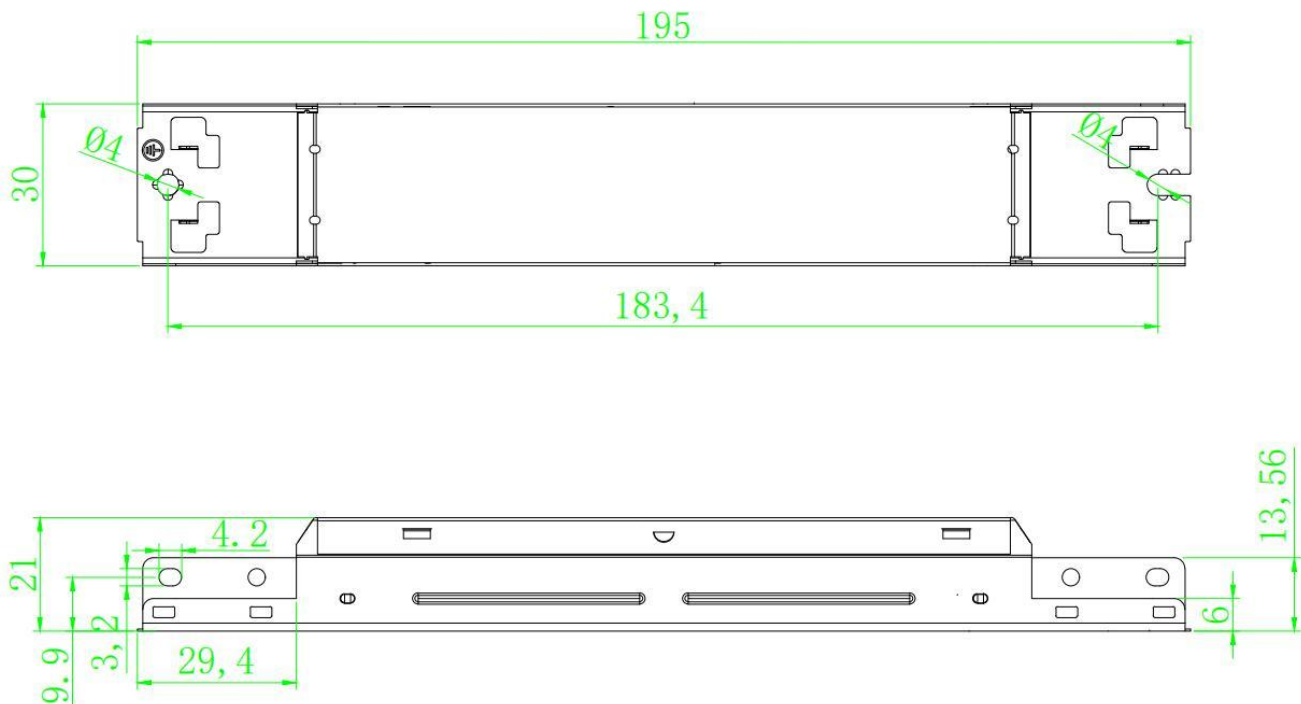


Center-to-Center Distance of Mounting Holes	153.3mm
Locating Hole Diameter	4mm
Housing Length	165mm
Housing Width	30mm
Housing Height	21mm

Color & Material

Housing Material	Pre-painted Galvanized Steel Sheet
Housing Color	White

80W

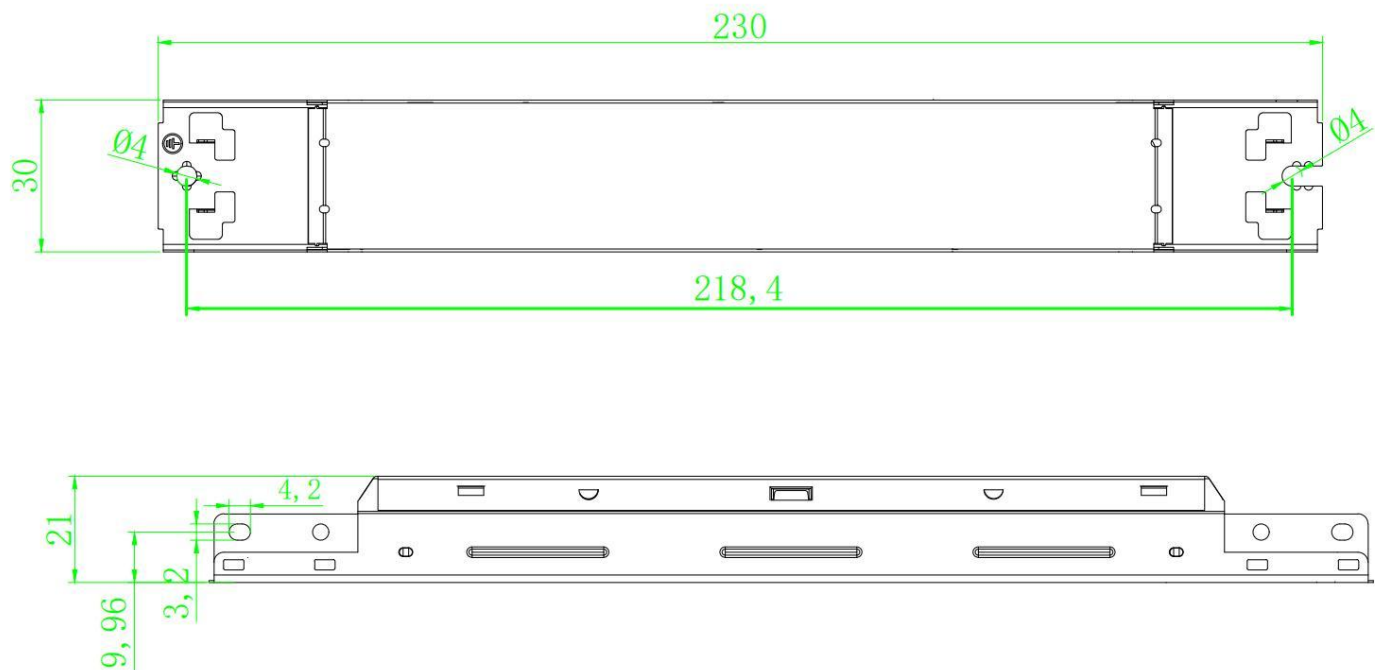


Center-to-Center Distance of Mounting Holes	183.4mm
Locating Hole Diameter	4mm
Housing Length	195mm
Housing Width	30mm
Housing Height	21mm

Color & Material

Housing Material	Pre-painted Galvanized Steel Sheet
Housing Color	White

100W&150W

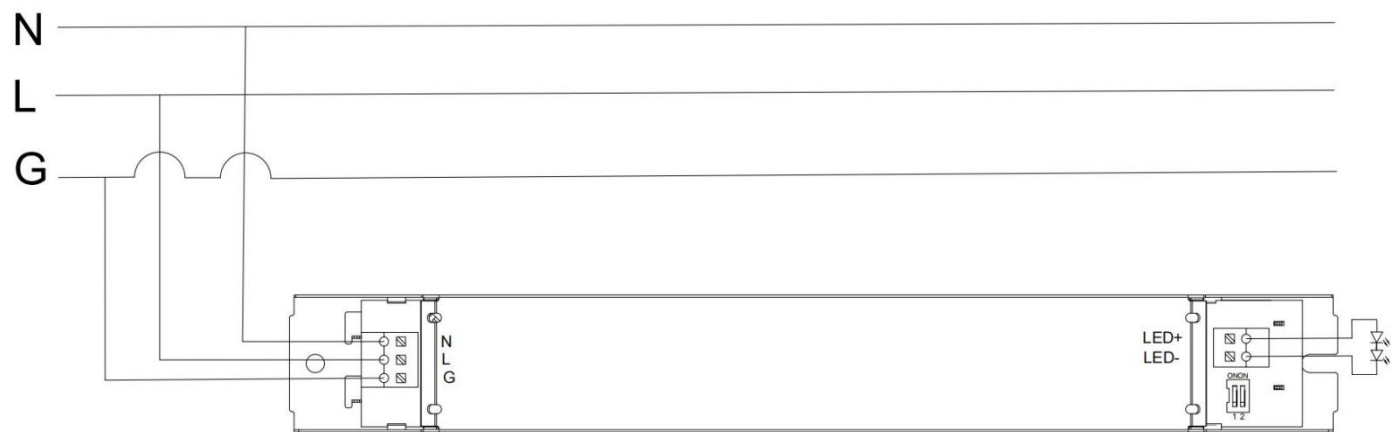


Center-to-Center Distance of Mounting Holes	218.4mm
Locating Hole Diameter	4mm
Housing Length	230mm
Housing Width	30mm
Housing Height	21mm

Color & Material

Housing Material	Pre-painted Galvanized Steel Sheet
Housing Color	White

6. Wiring Diagram



7. Packing information

LC20W200-350NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	375*245*220	110	0.082	9.05	9.49

LC40W200-350NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	375*245*220	110	0.0915	10.07	10.51

LC60W200-350NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	375*245*220	110	0.102	11.21	11.65

LC80W350-500NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	375*245*220	85	0.127	10.8	11.25

LC100W350-500NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	390*260*175	55	0.153	8.42	8.87

LC150W550-700NS

Packing Way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	390*260*175	55	0.161	9.2	9.65

8. Ordering data

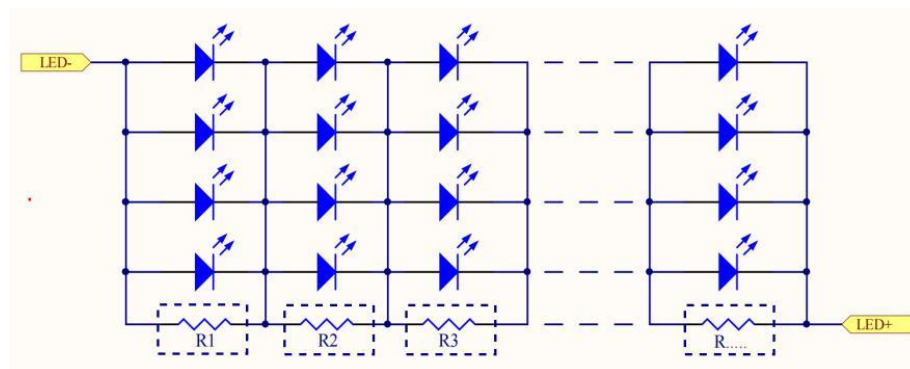
Model No	Item code
LC20W200-350NS	158110
LC40W200-350NS	158120
LC60W200-350NS	158130
LC80W350-500NS	158140
LC100W350-500NS	158150
LC150W550-700NS	158160

9. Wiring Diagram

- 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.
- Due to the parasitic capacitor between the LED light source and the aluminum substrate, a momentary faint glow may occur when AC power is initially applied to the luminaire, provided the aluminum substrate is grounded (i.e., the entire luminaire is grounded).

This phenomenon is normal for non-isolated LED driver.

To solve this effect, either an aluminum substrate with lower parasitic capacitor may be selected, or resistors can be connected in parallel with the LED beads (as shown in the picture below).



10. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release