

Constant Current Driver

Model: SC42W300-1050CG4-W-UNI-NX

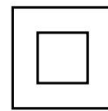
SC42W300-1050CG4-B-UNI-NX

SC42W300-1050CG4-G-UNI-NX



LVLE

FC



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
SC42W300-1050 CG4-W-UNI-NX SC42W300-1050 CG4-B-UNI-NX SC42W300-1050 CG4-G-UNI-NX	157000	300mA	0.12A	14.40W	3.00-12.60W	0.97	87.4%	10-42V	59V Max.
		350mA	0.14A	16.80W	3.50-14.70W	0.97	88.0%		
		400mA	0.16A	19.10W	4.00-16.80W	0.98	89.5%		
		450mA	0.18A	21.50W	4.50-18.90W	0.98	88.8%		
		500mA	0.21A	23.80W	5.00-21.00W	0.98	88.7%		
		550mA	0.23A	26.20W	5.50-23.10W	0.98	88.8%		
	157010	600mA	0.25A	28.60W	6.00-25.20W	0.98	89.0%	10-40V	
		650mA	0.27A	31.00W	6.50-27.30W	0.98	88.9%		
	157020	700mA	0.30A	33.40W	7.00-29.40W	0.98	88.8%		
		750mA	0.31A	35.80W	7.50-31.50W	0.99	88.7%		
		800mA	0.33A	38.30W	8.00-33.60W	0.99	88.3%		
		850mA	0.33A	38.80W	8.50-34.00W	0.99	88.0%		
		900mA	0.36A	41.20W	9.00-36.00W	0.99	88.0%		
		950mA	0.37A	43.50W	9.50-38.00W	0.99	88.0%		
		1000mA	0.39A	45.90W	10.00-40.00W	0.99	88.0%		
1050mA		0.41A	48.30W	10.50-42.00W	0.99	88.0%			

*** Test result @120V, 50Hz, Full Load.**

Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage	
SC42W300-1050 CG4-W-UNI-NX SC42W300-1050 CG4-B-UNI-NX SC42W300-1050 CG4-G-UNI-NX	157000	300mA	0.08A	14.40W	3.00-12.60W	0.75	87.8%	10-42V	59V Max.	
		350mA	0.09A	16.70W	3.50-14.70W	0.78	88.4%			
		400mA	0.10A	19.00W	4.00-16.80W	0.84	89.0%			
		450mA	0.11A	21.30W	4.50-18.90W	0.86	89.4%			
		500mA	0.12A	23.60W	5.00-21.00W	0.88	89.4%			
		550mA	0.13A	25.90W	5.50-23.10W	0.89	89.6%			
	157010	600mA	0.14A	28.20W	6.00-25.20W	0.90	89.7%			
		650mA	0.15A	30.50W	6.50-27.30W	0.92	89.8%			
		700mA	0.15A	32.90W	7.00-29.40W	0.92	89.9%			
	157020	750mA	0.16A	35.20W	7.50-31.50W	0.93	90.0%			
		800mA	0.17A	37.60W	8.00-33.60W	0.93	90.0%			
		850mA	0.18A	38.20W	8.50-34.00W	0.93	89.7%	10-40V		
		900mA	0.19A	40.40W	9.00-36.00W	0.93	89.8%			
		950mA	0.19A	42.60W	9.50-38.00W	0.94	89.8%			
		1000mA	0.20A	45.00W	10.00-40.00W	0.94	89.8%			
1050mA	0.21A	47.30W	10.50-42.00W	0.94	89.9%					

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

Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage	
SC42W300-1050 CG4-W-UNI-NX SC42W300-1050 CG4-B-UNI-NX SC42W300-1050 CG4-G-UNI-NX	157000	300mA	0.08A	14.50W	3.00-12.60W	0.75	87.8%	10-42V	59V Max.	
		350mA	0.09A	16.80W	3.50-14.70W	0.78	88.3%			
		400mA	0.09A	19.00W	4.00-16.80W	0.84	89.0%			
		450mA	0.10A	21.40W	4.50-18.90W	0.86	89.4%			
		500mA	0.11A	23.60W	5.00-21.00W	0.87	89.4%			
	157010	550mA	0.12A	26.00W	5.50-23.10W	0.89	89.6%			
		600mA	0.12A	29.00W	6.00-25.20W	0.90	89.7%			
		650mA	0.13A	30.60W	6.50-27.30W	0.91	89.8%			
		157020	700mA	0.14A	32.90W	7.00-29.40W	0.93			89.9%
			750mA	0.15A	35.20W	7.50-31.50W	0.93			90.0%
	800mA		0.15A	37.60W	8.00-33.60W	0.93	90.0%			
			850mA	0.16A	38.20W	8.50-34.00W	0.93	89.7%		
			900mA	0.17A	40.60W	9.00-36.00W	0.93	89.8%		
		950mA	0.17A	42.70W	9.50-38.00W	0.94	89.8%			
		1000mA	0.18A	45.00W	10.00-40.00W	0.94	88.8%			
1050mA		0.19A	47.20W	10.50-42.00W	0.95	88.9%				

*** Test result @277V, 50Hz, Full Load.**

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II(compatible Class I)
Input	Rated Input Voltage	120-277VAC
	Range of Input Voltage	100-305VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	50/60Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.41A (120VAC, full load)
	Input Power	≤48.30W (120VAC, full load)
	Power Factor	≥0.99 (120VAC, full load)

	THD	≤10% (120VAC, full load)
	No-load Power Consumption	≤0.5W @ 230VAC
	Inrush Current	≤9.5A/16us (120VAC, full load)
	Connected quantity of 10A Breaker	21pcs/type A ;33pcs/type B ; 53pcs/type C
	Connected quantity of 13A Breaker	26pcs/type A ;42pcs/type B ; 68pcs/type C
Output	Connected quantity of 16A Breaker	33pcs/type A;53pcs/type B ; 84pcs/type C
	Connected quantity of 20A Breaker	41pcs/type A;66pcs/type B ; 105pcs/type C
	Output Voltage Range	10-42VDC@300-800mA 10-40VDC@850-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300mA -1050mA (Max. output) , Factory set current of 300mA
	Max. Output Power	42W
	Efficiency	≥90% @750-800mA, 230VAC
	Current Ripple	±5% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
Protection	Starting Delay Time	≤0.5S@277VAC, ≤1S@120VAC
	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
Environment	Leakage current	< 250μA, I/P to O/P or I/P to PE @120V input
	Ta/Operation Temperature	-25....+35℃
	Ts/Storage Temperature	-25....+75℃
	Tc/Enclosure Temperature	75℃
	Humidity	10%.... 90%RH
Construction	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75 □
	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)
Standards	Dimension	217.7*31.1*42.2 mm (L*W*H)
	Certification	ETL
	Safety Standards	ETL8750
	EMC Standards	FCC PART 15 B
	Performance	EN62384
	Surge	L-N:2kV

Others	RoHS	complied to 2011/65/EU
	Life Time	50000h Tc=75°C
		75000h Tc=70°C
		100000h Tc=65°C
	Warranty	5 years , F.R. < 10000ppm
Remark: 1.All Parameters,if not specified,are measured at 120VAC/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 with end products again.		

Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. 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

3. Label

White (RAL 9016)

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
tc=70°C
ta=35°C

RECOGNIZED COMPONENT

CE FC LVLE

Intertek

Pout [W]	Iout [mA]	PF	1	2	3	4	Pout [W]	Iout [mA]	PF	1	2	3	4
12.6	300	0.97	-	-	-	-	29.4	700	0.98	ON	-	-	-
14.7	350	0.97	-	-	-	ON	31.5	750	0.99	ON	-	-	ON
16.8	400	0.98	-	-	ON	ON	33.6	800	0.99	ON	-	ON	ON
18.9	450	0.98	-	-	ON	ON	34.0	850	0.99	ON	-	ON	ON
21.0	500	0.98	-	ON	-	-	36.0	900	0.99	ON	ON	-	-
23.1	550	0.98	-	ON	ON	-	38.0	950	0.99	ON	ON	-	ON
25.2	600	0.98	-	ON	ON	ON	40.0	1000	0.99	ON	ON	ON	ON
27.3	650	0.98	-	ON	ON	ON	42.0	1050	0.99	ON	ON	ON	ON

SC42W300-1050CG4-W-UNI-NX SEC:300-800mA 10-42VDC 2.DRY LOCATIONS ONLY
157000 850-1050mA 10-40VDC 3.POUR EMPLACEMENTS
For LED modules only 850-1050mA 10-40VDC 3.SÉCS SEULEMENT
Constant Current Lighting track adaptors Uout:59VDC 42W Max. 4.pour réduire le risque
PRI:120VAC 50/60Hz Max. 0.41A Max. 47W Fmax.50N+ d'incendie et de choc
1.To reduce the risk of fire and electric 0.5-1.5" électrique, utiliser
shock, recommend to use with the track 8-9mm uniquement avec le système
system of model PRO-R4XXX series and PRO-04XXX series manufacture by
Dongguan Tian Sheng Optic-Tronics Corp.

ON 1 2 3 4 OFF

Black (RAL 9005)

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
tc=70°C
ta=35°C

RECOGNIZED COMPONENT

CE FC LVLE

Intertek

Pout [W]	Iout [mA]	PF	1	2	3	4	Pout [W]	Iout [mA]	PF	1	2	3	4
12.6	300	0.97	-	-	-	-	29.4	700	0.98	ON	-	-	-
14.7	350	0.97	-	-	-	ON	31.5	750	0.99	ON	-	-	ON
16.8	400	0.98	-	-	ON	ON	33.6	800	0.99	ON	-	ON	ON
18.9	450	0.98	-	-	ON	ON	34.0	850	0.99	ON	-	ON	ON
21.0	500	0.98	-	ON	-	-	36.0	900	0.99	ON	ON	-	-
23.1	550	0.98	-	ON	ON	-	38.0	950	0.99	ON	ON	-	ON
25.2	600	0.98	-	ON	ON	ON	40.0	1000	0.99	ON	ON	ON	ON
27.3	650	0.98	-	ON	ON	ON	42.0	1050	0.99	ON	ON	ON	ON

SC42W300-1050CG4-B-UNI-NX SEC:300-800mA 10-42VDC 2.DRY LOCATIONS ONLY
157010 850-1050mA 10-40VDC 3.POUR EMPLACEMENTS
For LED modules only 850-1050mA 10-40VDC 3.SÉCS SEULEMENT
Constant Current Lighting track adaptors Uout:59VDC 42W Max. 4.pour réduire le risque
PRI:120VAC 50/60Hz Max. 0.41A Max. 47W Fmax.50N+ d'incendie et de choc
1.To reduce the risk of fire and electric 0.5-1.5" électrique, utiliser
shock, recommend to use with the track 8-9mm uniquement avec le système
system of model PRO-R4XXX series and PRO-04XXX series manufacture by
Dongguan Tian Sheng Optic-Tronics Corp.

ON 1 2 3 4 OFF

Grey (RAL 7035)

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
tc=70°C
ta=35°C

RECOGNIZED COMPONENT

CE FC LVLE

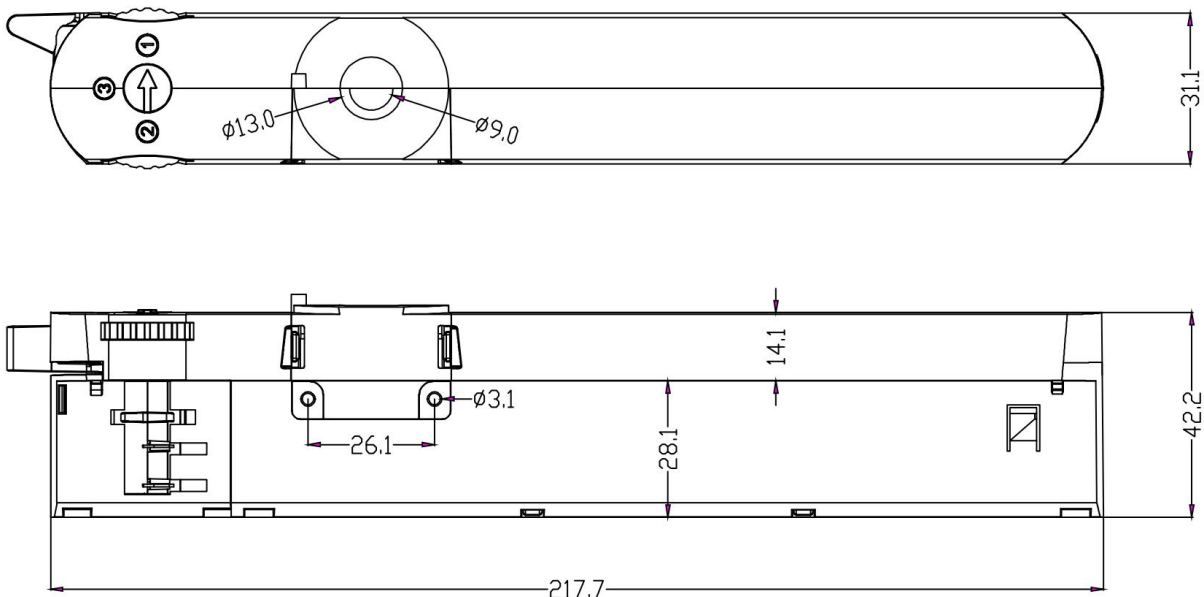
Intertek

Pout [W]	Iout [mA]	PF	1	2	3	4	Pout [W]	Iout [mA]	PF	1	2	3	4
12.6	300	0.97	-	-	-	-	29.4	700	0.98	ON	-	-	-
14.7	350	0.97	-	-	-	ON	31.5	750	0.99	ON	-	-	ON
16.8	400	0.98	-	-	ON	ON	33.6	800	0.99	ON	-	ON	ON
18.9	450	0.98	-	-	ON	ON	34.0	850	0.99	ON	-	ON	ON
21.0	500	0.98	-	ON	-	-	36.0	900	0.99	ON	ON	-	-
23.1	550	0.98	-	ON	ON	-	38.0	950	0.99	ON	ON	-	ON
25.2	600	0.98	-	ON	ON	ON	40.0	1000	0.99	ON	ON	ON	ON
27.3	650	0.98	-	ON	ON	ON	42.0	1050	0.99	ON	ON	ON	ON

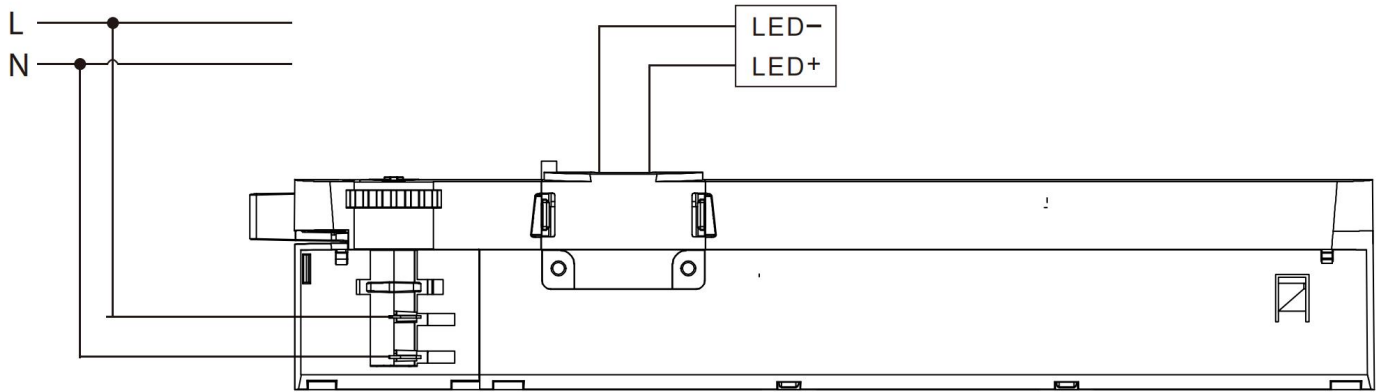
SC42W300-1050CG4-G-UNI-NX SEC:300-800mA 10-42VDC 2.DRY LOCATIONS ONLY
157020 850-1050mA 10-40VDC 3.POUR EMPLACEMENTS
For LED modules only 850-1050mA 10-40VDC 3.SÉCS SEULEMENT
Constant Current Lighting track adaptors Uout:59VDC 42W Max. 4.pour réduire le risque
PRI:120VAC 50/60Hz Max. 0.41A Max. 47W Fmax.50N+ d'incendie et de choc
1.To reduce the risk of fire and electric 0.5-1.5" électrique, utiliser
shock, recommend to use with the track 8-9mm uniquement avec le système
system of model PRO-R4XXX series and PRO-04XXX series manufacture by
Dongguan Tian Sheng Optic-Tronics Corp.

ON 1 2 3 4 OFF

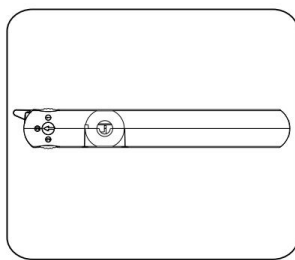
4. Dimension (Unit: mm)



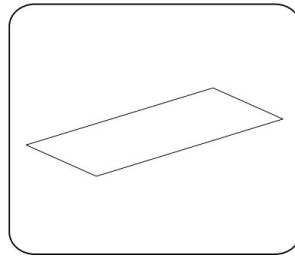
5. Wiring Diagram



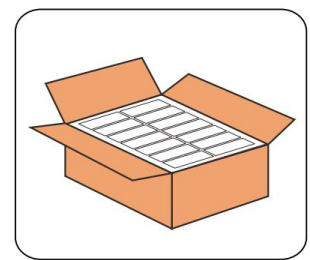
6. Packing information



Product



paper partitions linerboard
/Plastic paper



50 per small box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
310*235*230	50	0.148	7.40	7.90

7. Ordering Data

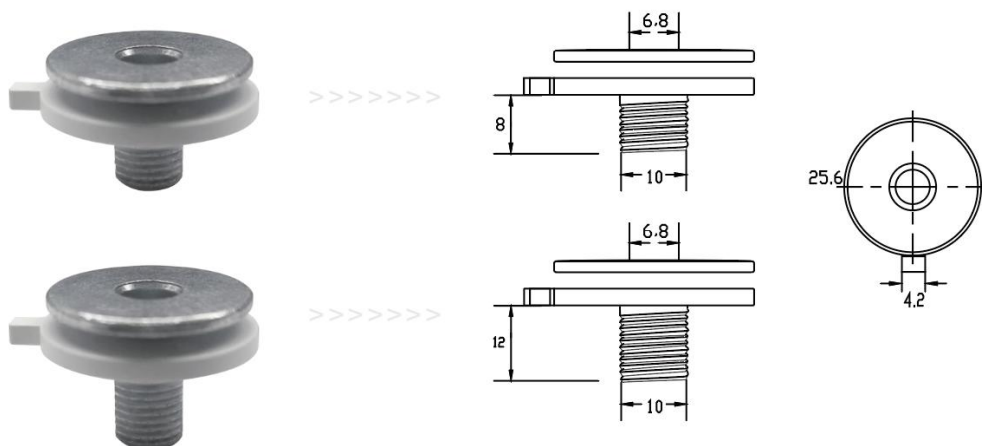
Model No	Item code
SC42W300-1050CG4-W-UNI-NX	157000
SC42W300-1050CG4-B-UNI-NX	157010
SC42W300-1050CG4-G-UNI-NX	157020

8. Lamp Screw Type

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment, e.g. M10x1x12
- aluminium, black, white
- further on request

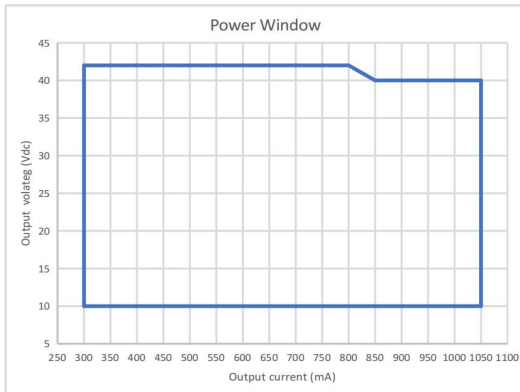
Ordering data

Type	Colour	Qty/ctn	Weight/pcs
M10X1X8	White	2500	9.6g
	Black	2500	9.6g
	Grey	2500	9.6g
M10X1X12	White	2500	10.0g
	Black	2500	10.0g
	Grey	2500	10.0g



9. Electrical values

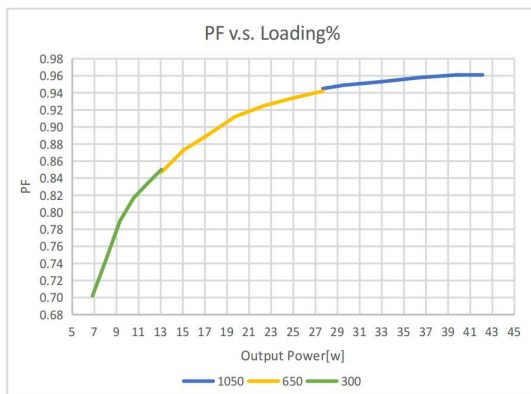
1. Operating power windows



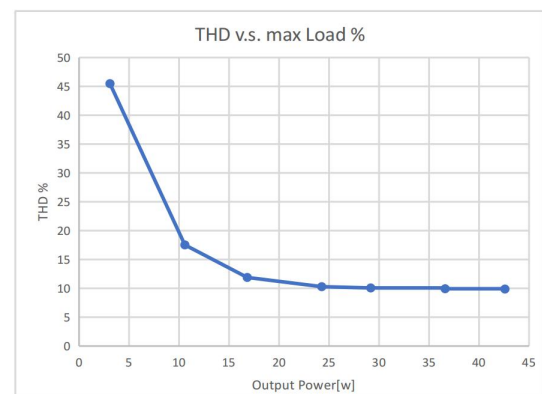
2. Efficiency v.s. Load



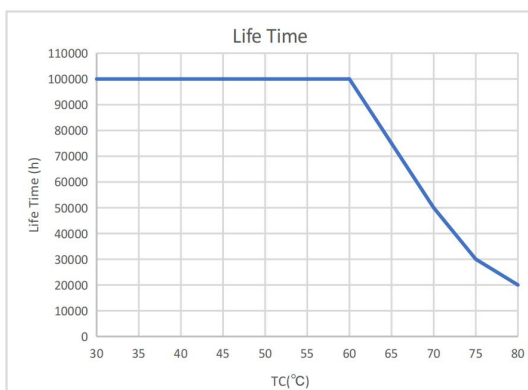
3. PF v.s. Load



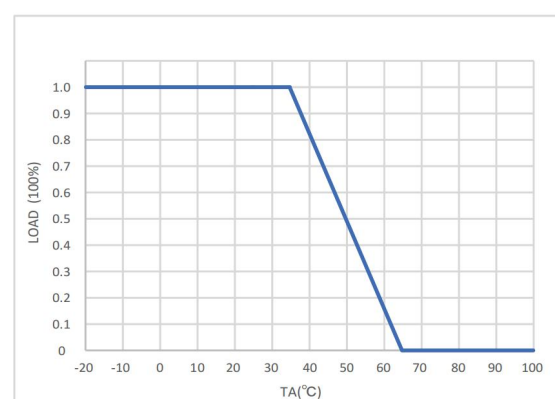
4. THD v.s. Load



5. Life time



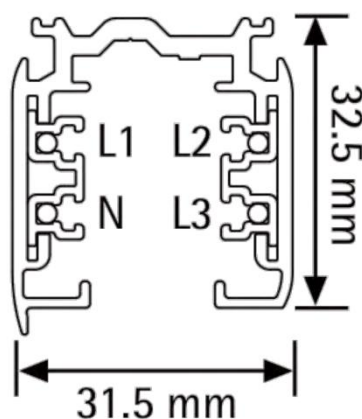
6. Derating



10. Suitable for following tracks

Manufac turer	Type	System	Intrack casing colour
ZUMTOBEL	S280...	3P	Black, white, grey
EUTRAC	25-XX-XX	3P	Black, white, grey
IVELA	7501 /7511	3P	Black, white, grey
LUMISYS UNIPRO	T32 / T33 /34	3P	Black, white, grey
NORDIC ALUMINIUM	GLOBAL Trac Pro XTs 4xxx	3P	Black, white, grey
ERCO	783.	3P	Black, white, grey
SIDE	25101	3P	Black, white, grey
Unipro	T32B	3P	Black, white, grey
Unipro	T32FW	3P	Black, white, grey
iGuzzini	6771-6774	3P	Black, white, grey
iGuzzini	6779-6782	3P	Black, white, grey
Powergear	PRO-04X0	3P	Black, white, grey
Powergear	PRO-0610	3P+DAL	Black, white, grey
Unipro	TC32W	3P+DAL	Black, white, grey
Unipro	TC32FW	3P+DAL	Black, white, grey
NORDIC ALUMINIUM	GLOBAL Trac Pulse XTsc 6xxx	3P+DAL	Black, white, grey
NORDIC ALUMINIUM	GLOBAL Trac Pulse XTSCF 6xxx	3P+DAL	Black, white, grey
Stucchi	One track	3P+DAL	Black, white, grey

11. Phase track light rail specification:



12. Lighting track adapter and rail system installation diagram:



The adaptor shall be given that the use is limited to the track system specified.

13. 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.)

14. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release