



48V Power Supply

Constant Voltage Driver

Model: LV250W48VDC(-T)-NX

Fit the Stucchi Multisystem 9500 series track

Fit for Powergear 48V low voltage track

Model	Item Code	Rated Input Voltage	Input Current	PF	Output Power Range	Output Voltage	Output Current	Efficiency (typ.)
LV250W48VDC-W-NX	157070	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-B-NX	157080	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-T*-W-NX	157090	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-T*-B-NX	157100	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-3M-W-NX	160060	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-3M-B-NX	160070	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-T*-3M-W-NX	160080	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%
LV250W48VDC-T*-3M-B-NX	160090	220-240VAC	≤1.50A	≥0.95	0.00-250.00W	48V	0.00-5.21A	92%

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

1. Parameters

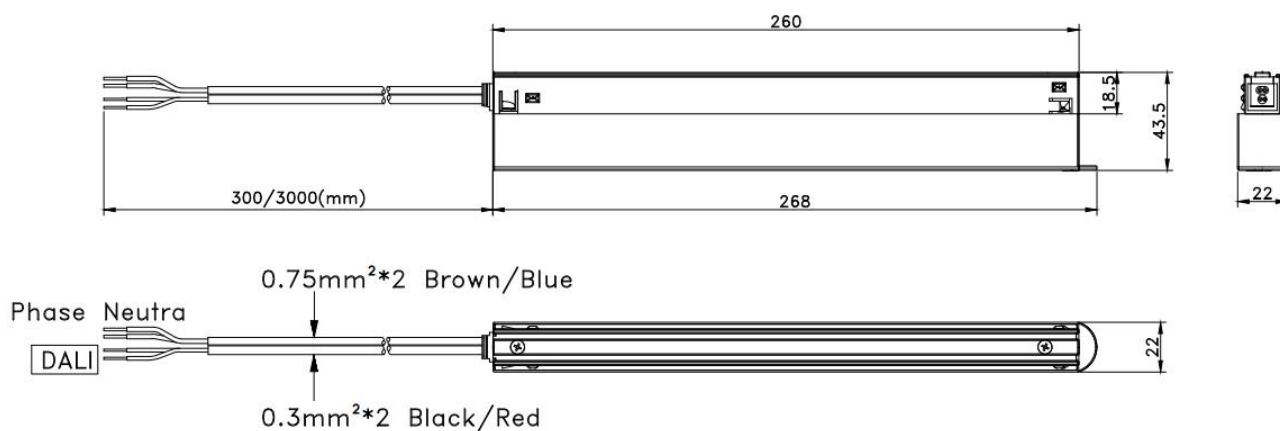
Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Output Feature	Isolation
	Insulation Class	Class II
	IP Grade	IP20
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Frequency	50/60Hz
	Input Current	≤1.5A, 198VAC, Rated Load
	Input Power	≤272W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	Standby Power Consumption	≤1.0W @230VAC
	Inrush Current	≤80A/200us (230VAC, full-load)
	Connected quantity of 16A Breaker	12pcs, 16A type B / 19pcs 16A type C
Output	Output Voltage	48VDC ±3%
	No Load Voltage	48VDC ±3%
	Output Current	0-5.21A
	Rated Output Power	250W

	Efficiency	≥90% (230VAC, full load)
	Started Delay Time	≤0.5S (220-240VAC)
	Output Ripple Voltage	<1% (220-240VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Over Current Protection	120%~200%Io, Auto Recover
	No-load Protection	<50V, Auto Recovery
	Insulation voltage	I/P to O/P, 3KVac/5mA/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250μA
Environment	Ta/Operation Temperature	-25...+45°C
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	<85°C
	Humidity	5%....85%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Built-in
	PRI Wire preparation	0.75mm ² *2, blue/brown+0.3mm ² *2, Black/Red
	SEC Wire preparation	NA
	Dimension	268X22X43.5mm (L*W*H)
Standards	Certification	TUV
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62493:2015, GB19510.1, GB19510.14
	EMC Standards	EN55015:2013/A1:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN61547:2009, GB 17743, GB 17625.1
	Performance	EN62384
	Surge	L-N/2KV
Others	Color	White-RAL9010
		Black-RAL9016
	RoHS	Conform to RoHS
	Life Time	50000h @40°C (Ta)
	Warranty	5years F.R. <10000ppm

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 with end products again.
3. Safety warnings for products and installation
KGP recommends the usage of an opto-insulated repeater dali compatible different modes:
- 2 different power supplier (2 circuits, 0-60V dc)
- 1 circuit for 60V dc and 1 circuit for Data B

2. Dimension

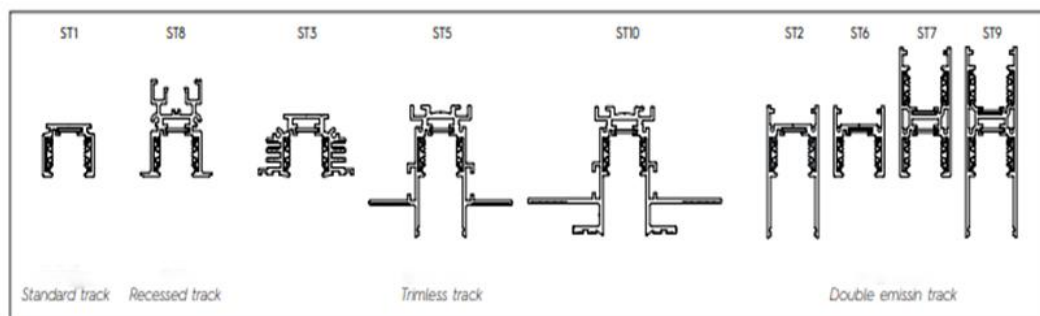


Compatible Track

Stucchi Multisystem 9500 series track

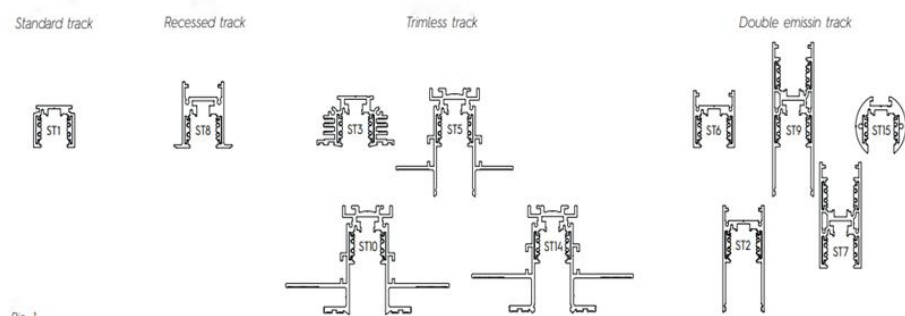
MULTISYSTEM®

MULTISYSTEM® TRACK

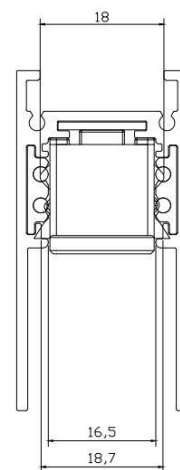


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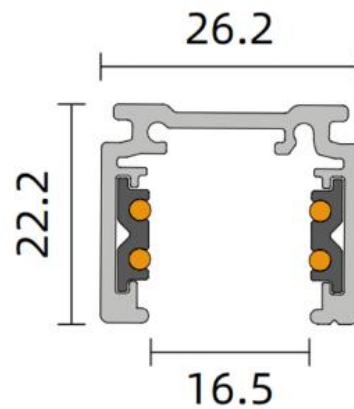
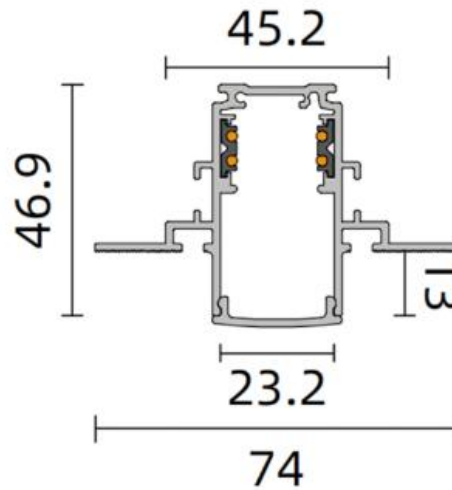
MULTISYSTEM® EVO TRACK



Pic. 1



Powergear 48V low voltage track



3. Label (For example)

☐ L ☐ DIM ☐ DIM ☐ N ☐ INPUT	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	For LED Modules Only LED Driver LV250W48VDC -T-B 140741	Constant Voltage Type Power Factor(λ): ≥0.95 Input:220-240VAC~50/60Hz 1.4A ta:45°C tc:85°C	Output:48V==Max.5210mA Rated Power: Max. 250W	•tc SELV ENEC
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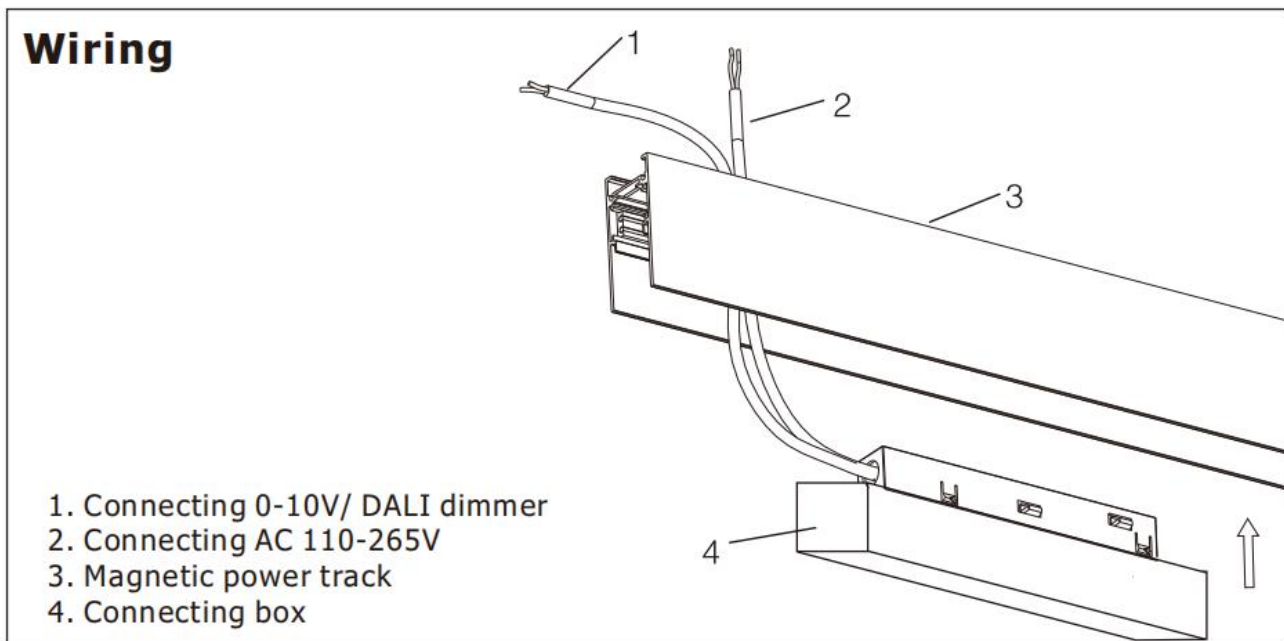
4. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
With white box and manual	LV250W48VDC-(T)-NX	340*200*340	30	0.38	11.40	13.00
With white box and manual	LV250W48VDC-(T)_3M-NX	340*290*330	30	0.55	16.50	17.96

5. Ordering data

Model No	Item code
LV250W48VDC-W-NX	157070
LV250W48VDC-B-NX	157080
LV250W48VDC-T-W-NX	157090
LV250W48VDC-T-B-NX	157100
LV250W48VDC-3M-W-NX	160060
LV250W48VDC-3M-B-NX	160070
LV250W48VDC-T-3M-W-NX	160080
LV250W48VDC-T-3M-B-NX	160090

6. Wiring Diagram



7. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.13.06	V0.02	Add color options
2026.31.07	V0.03	Standby Power Consumption change from 0.5W to 1.0W