KGP

Product Description

● different power range adjustable with DIP switch

● constant current LED driver

● output current: 650mA,750mA, 800mA and 850mA

● max output power 34W

● lifetime up to 50000 hours

● insulation Class: I,II

● temperature protection comply with EN61347-2-13 CE

● 5 years warranty

●The Class II symbol is just considered by driver, not by adaptor system.

●Track adapters can be used with Class III luminaires.

●Suitable for following tracks

- NA Globaltrac pro

- Eutrac 25101

- Stucchi

- Ivela

- Unipro

- Concord

- Hoffmeister

- further on request
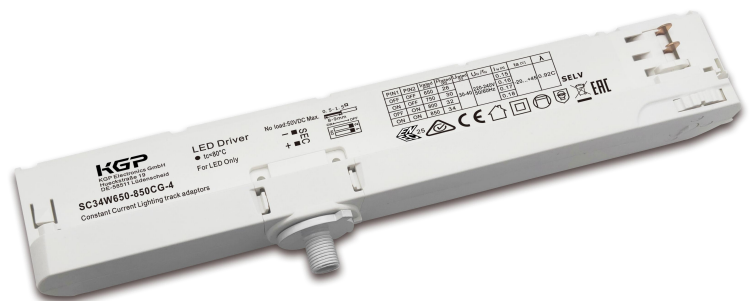
Performance

● Case: PC(polycarbonate)，fire-protection rating: 91-V0 conformed with ROHS

● Color: black RAL9005（B）,grey RAL7040（G）,white RAL9016（W）

● Nipple color: black RAL9005（B）,grey RAL7040（G）,white RAL9016（W）

● Red copper alloy contacts

● 2KV surge

● ingress protection: IP20

Product Characteristics

● The lamp control gear does not rely upon the luminaire enclosure for protection against accidental

  contact with live parts, the LED light source load can't be accessible.

● If the components are unsuitable for the connection of inductive loads, or de-rating for inductive loads if appropriate.

● It is the user's responsibility to ensure electrical, mechanical and thermal compatibility between the track system and luminaires attached to it.
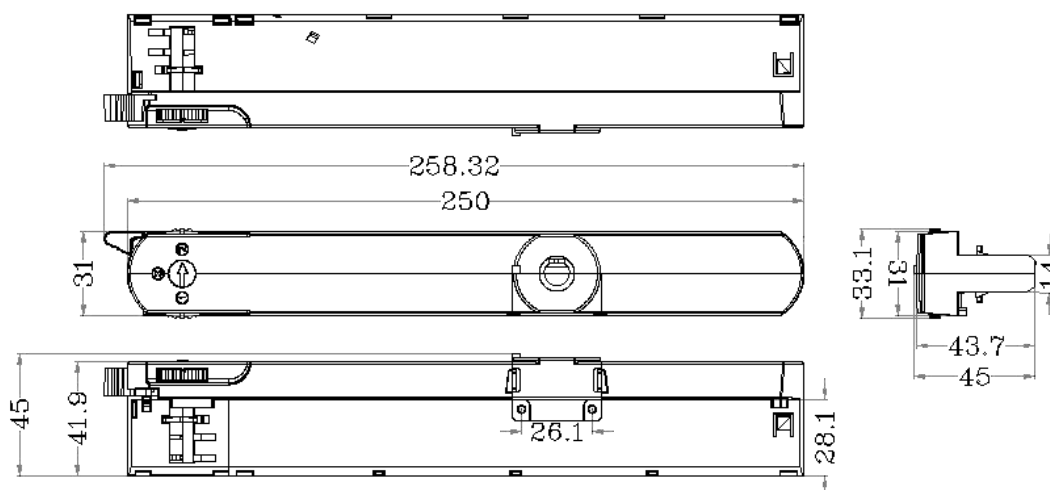
● for LED lamps use only

Protections:

● Over-load protection

● Short Circuit protection

●No-load protection

● Under-voltage protection

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

Specifications

Rated supply voltage	220-240V
Input voltage	198-264V or 200-250VDC
Mains frequency	50-60Hz
THD (at 230 V, 50 Hz, full load)	< 20 %
Output current tolerance	±5%
Output current ripple (at 230 V, 50 Hz, full loaded)	±3%(Imax-Imin)/(Imax+Imin)
Inrush Current	31.6A/600μs
Connected quantity of 16A Breaker	25pcs/type B ; 40pcs/type C @230Vac
Surge withstand resistance	L-N/2KV
Insulation and voltage resistance	3.0KV/60s/5mA
Starting time (at 230 V, 50 Hz, full loaded)	<0.5 s
Turn-off time (at 230 V, 50 Hz, full loaded)	<0.3 s
Ambient Temp (ta):	-20...+45℃
The maximum permissible track temperature under normal operating conditions：	45℃
Life time	100000 hours@35℃ 50000 hours@45℃
Storage Temp: (ts):	-30...+75℃
Size L×W×H	250 x 31 x 45
Net weight:	155g

Product size:

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Standards:

ENEC+CE:	EN 55015：2013/A1：2015	CB：	IEC 60570:2003	SAA: AS/NZS IEC61347.2.13.2013
	EN 61000-3-2：2014		IEC 60598-1:2014	AS/NZS 61347.1.2016
	EN 61000-3-3：2013		IEC 61347-1:2015	AS/NZS 60598.1:2017
	EN 61347-1:2015		IEC 61347-2-13:2014	
	EN 61347-2-13:2014/A1:2017		IEC 61347-2-13:2014/AMD1:2016	
	EN 61547:2009			
	EN 62384:2006/A1:2009			
	EN 60598-1:2015			
	EN 60570:2003			

Glow-wire test
According to EN61347-1,pass 850℃ temperature test.

Over-load protection
If the output voltage range exceeded rated range， the LED Driver reduces the LED output current or in burst modes. After elimination of the overload the nominal operation is restored automatically.

Short circuit protection
In case of a short circuit on the secondary side (LED) the LED Driver switched off. After elimination of the short-circuit fault the LED Driver will recover automatically.

No-load protection
The LED Driver works in burst working mode to limit output voltage which allows the application to be able to work safely when LED string opens due to a failure.

Under voltage protection
The LED Driver will switch off when input voltage is lower than 150-170VAC.

Storage condition
Humidity 5%-85%

Non-Condensable

  *max. 60 days per year at 85 % humidity

Storage temperature: -30 °C up to max. +75 °C
The devices have to be within the specified temperature range (ta) before they can be operated.

Replace LED module

● Mains off

● Remove LED module

●Wait for 10 seconds

● Connect LED module again

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high impulse current to the LEDs.

Lamp isolation and electric strength test.

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production..

According to IEC 60598-1 Annex Q or ENEC 303- Annex A,each lamp must be tested by 50VDC/1s isolation test.* The isolation resistance must be at least 100MΩ.

As an alternative, IEC 60598-1 Annex Q describes a 2000V electric strength test.

Installation instructions

Maximum loading: 50N （Inclusive of the weight of luminaires and accessories） / max torque: 2,5Nm

The LED module and all contact points within the wiring must be sufficiently insulated against 2 KV surge voltage. Air and creepage distance must be maintained.

Wiring guidelines

Wiring type and cross section

The wire can be stranded wire and output wire can be 0.5 – 1.5 mm².
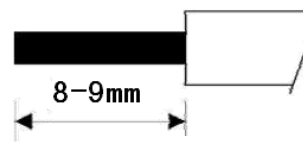

0.5-1.5mm²
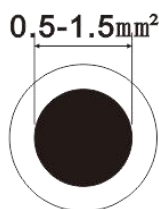
Photo a2

8−9mm

Photo 2

Strip 8-9 mm of insulation from the cable ends to ensure perfect operation of the wire terminals.Each terminal block only for one piece of wire.

Item No.	Output current （230VAC Full load）	Input current （230VAC Full load）	Input load （230VAC Full load）	Output load range	PF (full load)	Efficiency (full Load)	Output voltage range
SC34W650-850CG-4	650mA	0.15A	30.3W	26W	0.92	88%	30-40V
	750mA	0.16A	32.3W	30W	0.92	88%	30-40V
	800mA	0.17A	34.4W	32W	0.92	88%	30-40V
	850mA	0.18A	36.4W	34W	0.92	88%	30-40V

All parameters are tested at 220VAC input, full load and 25℃ ambient temperature after connected to power for 30 minutes.

Expected life time

Item No.	Output current	Ta	35℃	45℃
SC34W650-850CG-4	650mA	tc	54.3	63.7
		Life-time	100000H	50000H
	750mA	tc	56.8	68.3
		Life-time	100000H	50000H
	800mA	tc	63	72.6
		Life-time	100000H	50000H
	850mA	tc	67.5	76.8
		Life-time	100000H	50000H

*The LED Drivers are designed for a life-time stated above under reference conditions and with a failure probability of less than 10 %.

Lamp screw type
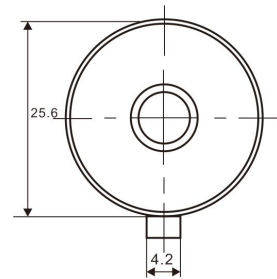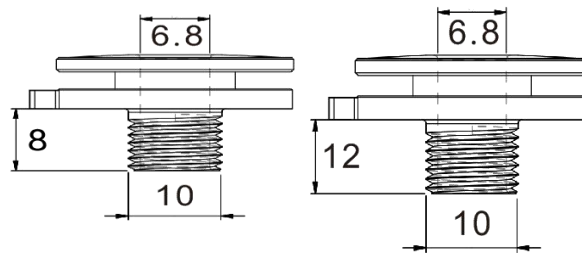
DIP Switch Operation instructions (*Hot-line working prohibited)
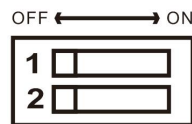
OFF ⟷ ON

PIN1	PIN2	I_{rated} [mA]	P_{rated} [W]
OFF	OFF	650	26
ON	OFF	750	30
OFF	ON	800	32
ON	ON	850	34

DIP switch parameters:

contact resistance (initial value)：≤50mΩ

contact resistance (after testing)：≤100mΩ

switching capacity (switches frequently switched)：25mA 24VDC

switching capacity (switches not switched frequently)：100mA

insulation resistance：≥100MΩ.Min.at 500VDC

dielectric strength：500VAC Min. for 60 seconds.1mA

interelectrode capacitance：≤5PF

operating force：1000gf   max

electrical life：3000 times

Wiring guidelines
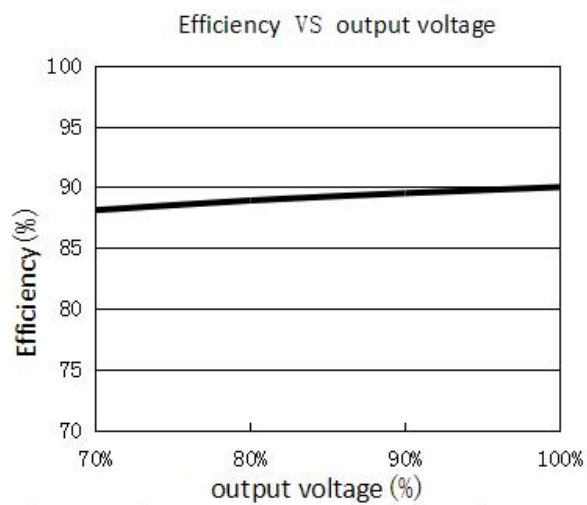
• All connections must be kept as short as possible to ensure good EMI behaviour.

• Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

• Secondary switching is not permitted.

• Incorrect wiring can damage LED modules.

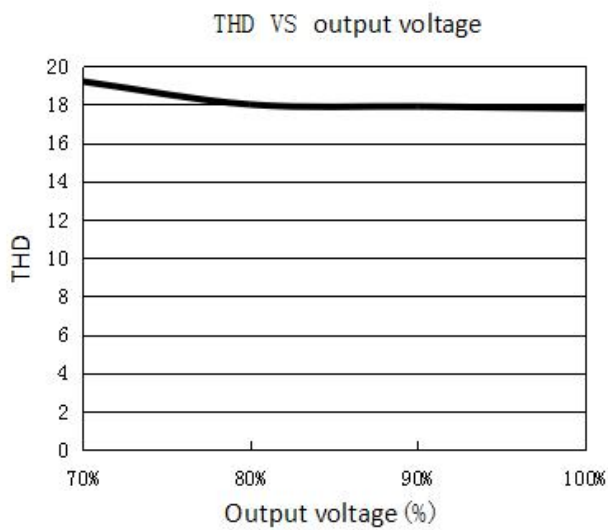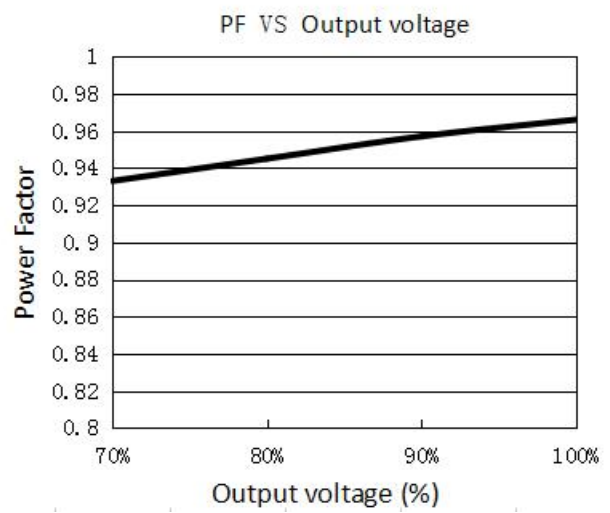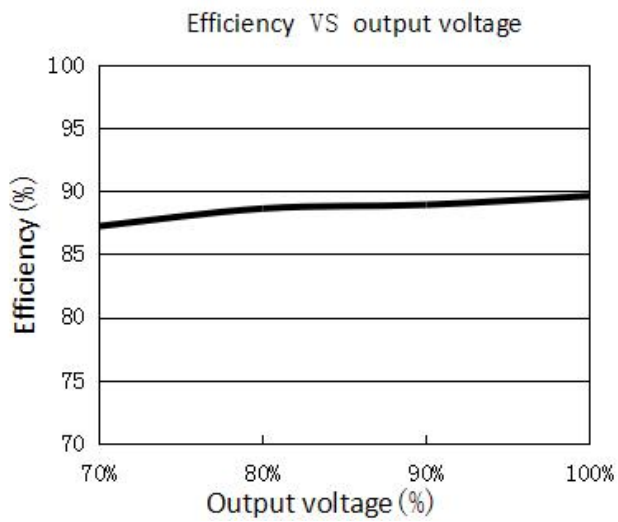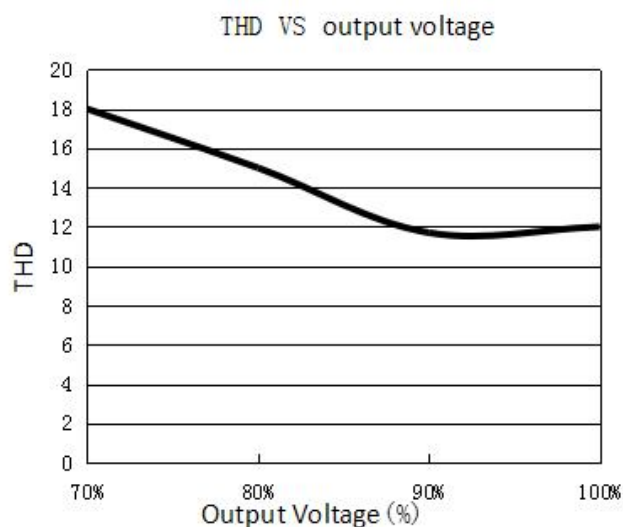• The wiring must be protected against short circuits to earth.

SC34W650-850CG-4（650mA）

Efficiency VS output voltage

Power factor VS output voltage

THD VS Output voltage

SC34W650-850CG-4（750mA）

Efficiency VS output voltage

Efficiency (%)

Output voltage (%)

PF VS Output voltage

Power Factor

Output voltage (%)

THD VS output voltage

THD

Output voltage (%)

SC34W650-850CG-4（800mA）

Efficiency VS Output voltage

Power factor VS Output voltage

THD VS output voltage
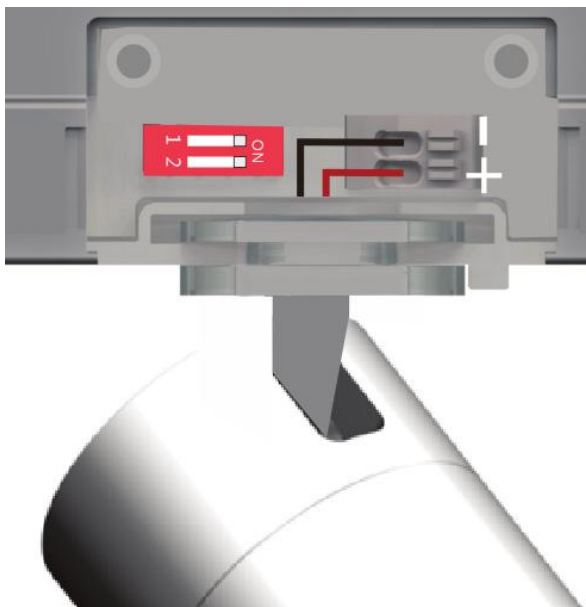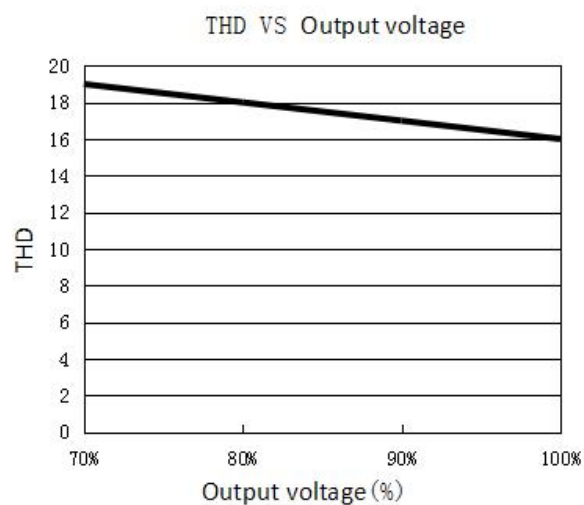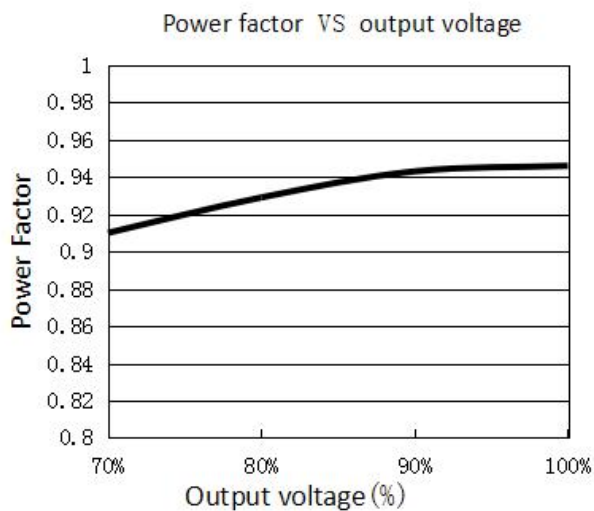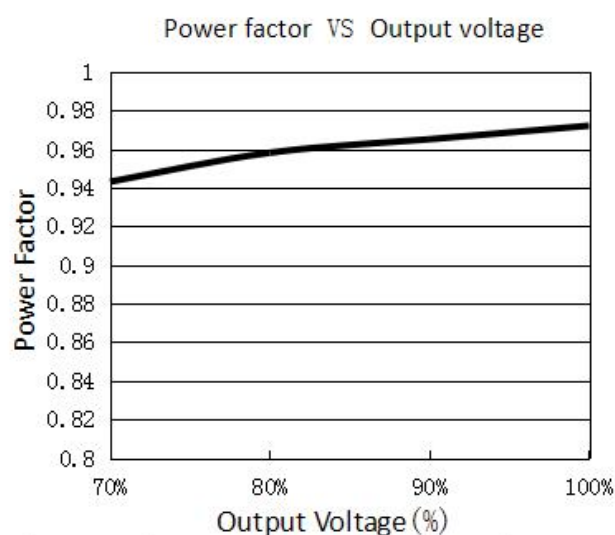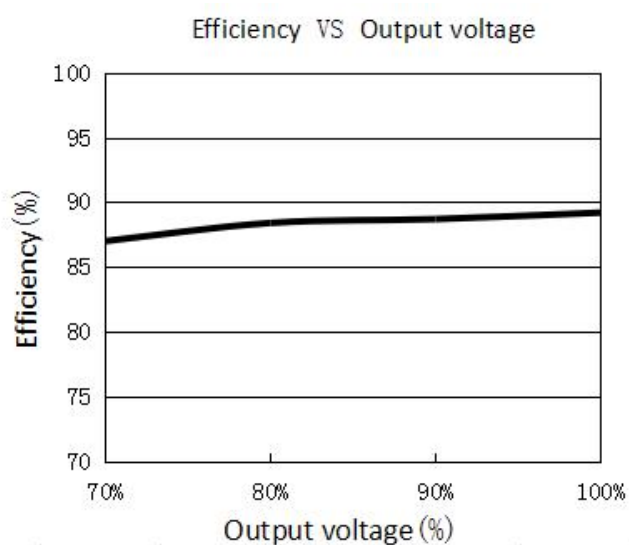
SC34W650-850CG-4（850mA）

Efficiency VS Output Voltage

Power factor VS Output voltage

THD VS output voltage
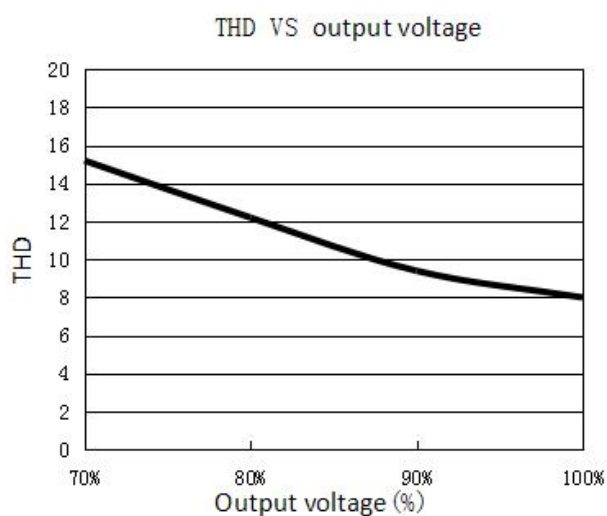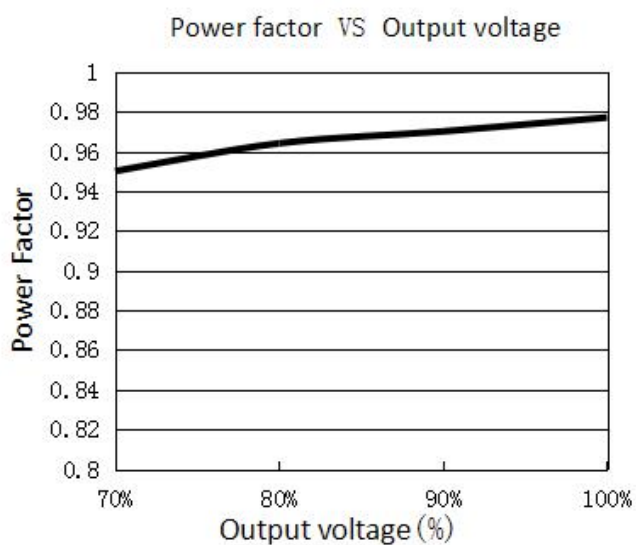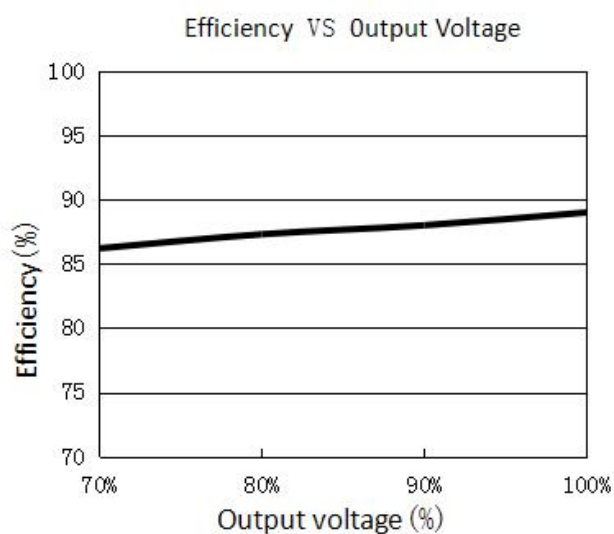
Packing information:

Item No	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
SC34W650-850CG-4	515*274*370	90	0.145	13.05	14.5

3 Phase track light rail specification (for reference only):
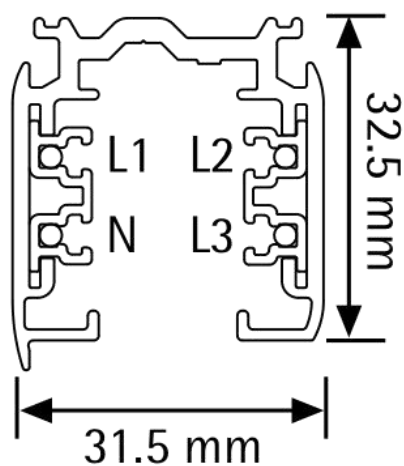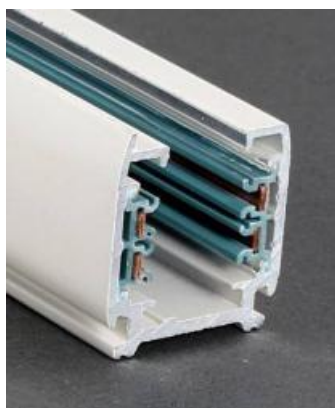
Lighting track adapter and rail system installation diagram (for reference only):

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