

### Constant Current Driver

**Model: SC80W350-500CG-4-W-NX**

**SC80W350-500CG-4-B-NX**

**SC80W350-500CG-4-G-NX**



| Model                 | Item Code | Output current | Input current | Input power | Output power range | PF        | Efficiency | Output voltage | No load voltage |
|-----------------------|-----------|----------------|---------------|-------------|--------------------|-----------|------------|----------------|-----------------|
| SC80W350-500CG-4-W-NX | 160270    | 350mA          | 0.33A         | 76.50W      | 24.00-70.00W       | 0.60-0.95 | 91.5%      | 80-200V        | 300V<br>Max.    |
| SC80W350-500CG-4-B-NX | 160280    | 400mA          | 0.38A         | 85.30W      | 32.00-80.00W       | 0.65-0.96 | 93.8%      | 80-200V        |                 |
| SC80W350-500CG-4-G-NX | 160290    | 450mA          | 0.41A         | 85.60W      | 36.00-79.70W       | 0.67-0.96 | 93.1%      | 80-177V        |                 |
|                       |           | 500mA          | 0.44A         | 85.30W      | 40.00-80.00W       | 0.70-0.96 | 93.8%      | 80-160V        |                 |

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

### 1. Parameters

| Category | Item                              | Technical Norm                                           |
|----------|-----------------------------------|----------------------------------------------------------|
| Features | Output Type                       | Constant Current                                         |
|          | Output Features                   | Non-Isolation                                            |
|          | IP Grade                          | IP20                                                     |
|          | Insulation Class                  | Class I                                                  |
| Input    | Rated Input Voltage               | 220-240VAC                                               |
|          | Range of Input Voltage            | 198-264VAC                                               |
|          | Range of DC Input Voltage         | 180-280VDC                                               |
|          | Frequency                         | 50/60Hz                                                  |
|          | Overvoltage protection            | 2h@380VAC, 48h@320VAC                                    |
|          | Input Current                     | ≤0.44A                                                   |
|          | Input Power                       | ≤85.60W                                                  |
|          | Power Factor                      | ≥0.96 (230VAC, full load)                                |
|          | THD                               | ≤20% (230VAC, full load)                                 |
|          | No-load Power Consumption         | ≤0.50W @230VAC                                           |
|          | Inrush Current                    | ≤9.5A/16us (230VAC, full load)                           |
|          | Connected quantity of 10A Breaker | 21pcs/type A ;33pcs/type B ;53pcs/type                   |
| Output   | Connected quantity of 13A Breaker | 26pcs/type A ;42pcs/type B ;68pcs/type                   |
|          | Connected quantity of 16A Breaker | 33pcs/type A ;53pcs/type B ;84pcs/type                   |
|          | Connected quantity of 20A Breaker | 41pcs/type A ;66pcs/type B ;105pcs/type                  |
|          | Output Voltage Range              | 80-200VDC@350-400mA,<br>80-177VDC@450mA, 80-160VDC@500mA |

|                                                                                                                                                                                                                                                              |                                     |                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                              | No Load Voltage                     | 300VDC Max.                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                              | Output Current                      | 350mA -500mA (Max. output),<br>Factory set current of 350mA                                                                                                                                                          |
|                                                                                                                                                                                                                                                              | Max. Output Power                   | 80W                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                              | Efficiency                          | ≥93.8% 230VAC, full load                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                              | Output LF current ripple (< 120 Hz) | ±1% (Imax-Imin) / (Imax+Imin)                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                              | Current Accuracy                    | ±5%                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                              | PSTLM                               | ≤1                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                              | SVM                                 | ≤0.4                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                              | Starting Delay Time                 | ≤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                  | 1500V 5mA 60S between P-E                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                              | Insulation resistance               | >100M ohm @ 500VDC L/N to PE                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                              | Leakage current                     | 700μA, I/P to O/P or I/P to PE @230V input                                                                                                                                                                           |
| Environment                                                                                                                                                                                                                                                  | Ta/Operation Temperature            | -25....+35℃                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                              | Ts/Storage Temperature              | -25....+75℃                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                              | Tc/Enclosure Temperature            | 75℃                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                              | Humidity                            | 10%.... 90%RH                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                              | Atmosphere                          | 86-108KPa                                                                                                                                                                                                            |
| Construction                                                                                                                                                                                                                                                 | 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) |
|                                                                                                                                                                                                                                                              | Dimension                           | 441.2*50.6*33.6 mm (L*W*H)                                                                                                                                                                                           |
| Standards                                                                                                                                                                                                                                                    | Certification                       | CE                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                              | Safety Standards                    | EN61347-1:2015/A1:2021;<br>EN61347-2-13:2014/A1:2017;                                                                                                                                                                |
|                                                                                                                                                                                                                                                              | Performance                         | EN62384                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                              | Surge                               | L/N-Ground:2kV; L-N:1kV:1kV                                                                                                                                                                                          |
| Others                                                                                                                                                                                                                                                       | RoHS                                | complied to 2011/65/EU                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                              | Life Time                           | 50000h Tc=75℃                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                              |                                     | 75000h Tc=70℃                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                              |                                     | 100000h Tc=65℃                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                              | Warranty                            | 5years , F.R. < 10000ppm                                                                                                                                                                                             |
| <b>Remark:</b><br>1.All Parameters,if not specified,are measured at 230VAC/50Hz and 25℃ ambient temperature.<br>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 <sup>2</sup> | 0.75mm <sup>2</sup> | 1.0mm <sup>2</sup> |

## 2. Output current setting

| Output Current | 1  | 2  |
|----------------|----|----|
| 350mA          | -  | -  |
| 400mA          | -  | ON |
| 450mA          | ON | -  |
| 500mA          | ON | ON |

## 3. Label

### White (RAL 9016)

| Pout [W] | Iout [mA] | PF        | 1  | 2  |
|----------|-----------|-----------|----|----|
| 70.0     | 350       | 0.60-0.95 | -  | -  |
| 80.0     | 400       | 0.65-0.96 | -  | ON |
| 79.6     | 450       | 0.67-0.96 | ON | -  |
| 80.0     | 500       | 0.70-0.96 | ON | ON |

**NEXIVO**  
by KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**LED Driver**  
For LED modules only

**SC80W350-500CG-4-W-NX**  
**160270**  
Constant Current Lighting track adaptors  
PRI:220-240VAC 50/60Hz Max. 0.44A  
SEC:350-400mA 80-200VDC  
450mA 80-177VDC 500mA 80-160VDC  
U-OUT:300VDC Max. 80W Fmax. 50N +

tc:75°C  
ta:35°C

N L

### Black (RAL 9004)

| Pout [W] | Iout [mA] | PF        | 1  | 2  |
|----------|-----------|-----------|----|----|
| 70.0     | 350       | 0.60-0.95 | -  | -  |
| 80.0     | 400       | 0.65-0.96 | -  | ON |
| 79.6     | 450       | 0.67-0.96 | ON | -  |
| 80.0     | 500       | 0.70-0.96 | ON | ON |

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**LED Driver**  
For LED modules only

**SC80W350-500CG-4-B-NX**  
**160280**  
Constant Current Lighting track adaptors  
PRI:220-240VAC 50/60Hz Max. 0.44A  
SEC:350-400mA 80-200VDC  
450mA 80-177VDC 500mA 80-160VDC  
U-OUT:300VDC Max. 80W Fmax. 50N +

tc:75°C  
ta:35°C

N L

### Grey (RAL 7035)

| Pout [W] | Iout [mA] | PF        | 1  | 2  |
|----------|-----------|-----------|----|----|
| 70.0     | 350       | 0.60-0.95 | -  | -  |
| 80.0     | 400       | 0.65-0.96 | -  | ON |
| 79.6     | 450       | 0.67-0.96 | ON | -  |
| 80.0     | 500       | 0.70-0.96 | ON | ON |

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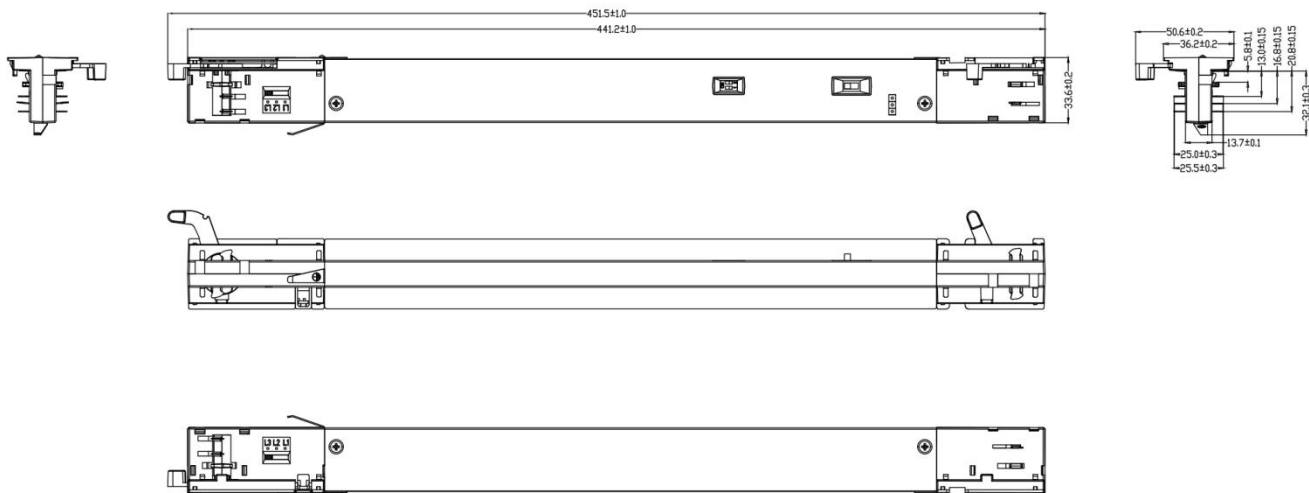
**LED Driver**  
For LED modules only

**SC80W350-500CG-4-G-NX**  
**160290**  
Constant Current Lighting track adaptors  
PRI:220-240VAC 50/60Hz Max. 0.44A  
SEC:350-400mA 80-200VDC  
450mA 80-177VDC 500mA 80-160VDC  
U-OUT:300VDC Max. 80W Fmax. 50N +

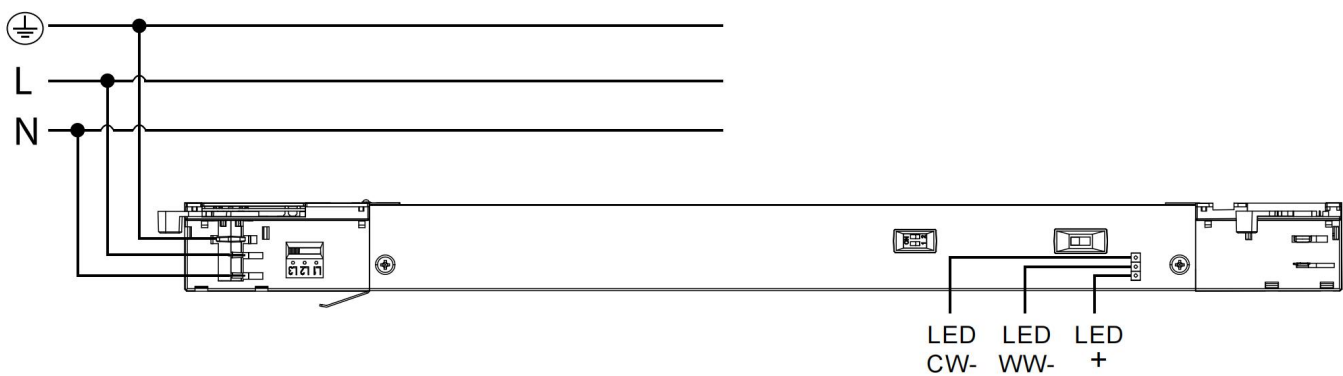
tc:75°C  
ta:35°C

N L

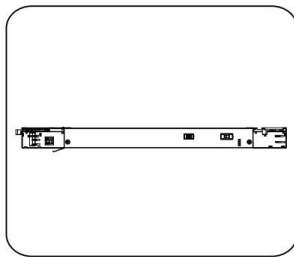
### 4. Dimension (Unit: mm)



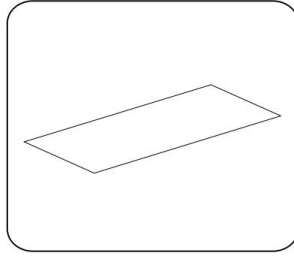
### 5. Wiring Diagram



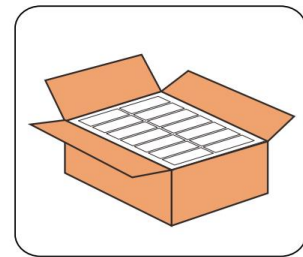
### 6. Packing information



Product



paper partitions linerboard  
/Plastic paper



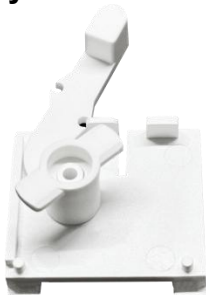
50 per small box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| T.B.D               | T.B.D      | T.B.D               | T.B.D                     | T.B.D                        |

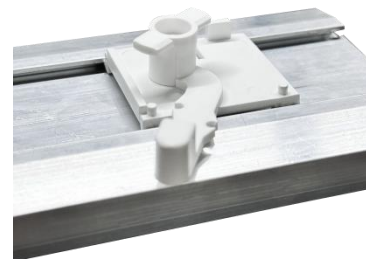
### 7. Ordering Data

| Model No              | Item code |
|-----------------------|-----------|
| SC80W350-500CG-4-W-NX | 160270    |
| SC80W350-500CG-4-B-NX | 160280    |
| SC80W350-500CG-4-G-NX | 160290    |

### 8. Auxiliary fixator



Installation effect  
>>>>>>>>



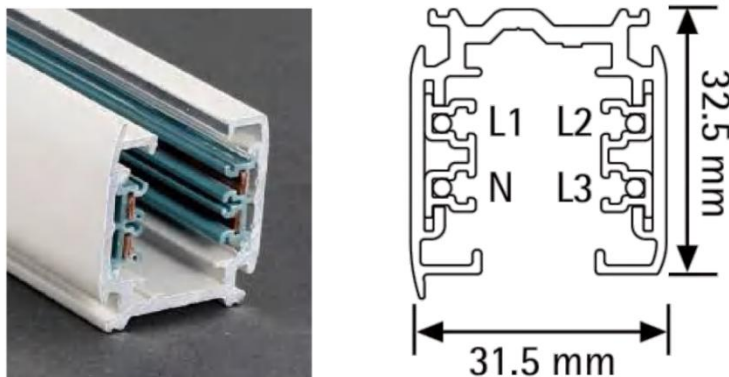
### 9. Suitable for following tracks

| Serial number | Brand   | Track model   | System |
|---------------|---------|---------------|--------|
| 1             | Global  | XTS4 &XTSF 4  | 3P     |
| 2             | Stucchi | 9000xX Series | 3P     |
| 3             | Eutrac  | 2510x         | 3P     |
| 4             | Unipro  | T32B          | 3P     |
| 5             | Ivela   | 7501          | 3P     |
| 6             | ERCO    | ZUMTOBEL      | 3P     |

**Remark:**

1. The model name is XTS 4 and XTSE 4 tracks, and its brand is Global.
2. The model name used is the 9000XX track, and its brand is Stucchi. The “XX” in the model name represents: it represents a different color.
3. The model name is 2510x tracks, and its brand is Eutrac. The “x” in the model name represents: it represents a different color (x=1 white; x=2 black; x=3 silver; x=8 grey).
4. The model name is T32B tracks and its brand is Unipro.
5. The model name is 7501 tracks, and its brand is Ivela.
6. The model name is ZUMTOBEL tracks, and its brand is ERCO.

**10. Phase track light rail specification:**



**11. Lighting track adapter and rail system installation diagram:**



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

## 12. 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.)

## 13. REVISION HISTORY

| Date       | Revision | Remark          |
|------------|----------|-----------------|
| 2026.13.06 | V0.01    | Product release |
|            |          |                 |
|            |          |                 |
|            |          |                 |
|            |          |                 |
|            |          |                 |
|            |          |                 |