

## ASTRO 2PN - 40 - 80 - 120 - 165 - 200

Direct current dimmable electronic drivers  
Alimentatori elettronici regolabili in corrente continua

SELV 120V<sup>(2)</sup>

<sup>(1)</sup> Referred to  $V_{in} = 230$  V, 100% load  
Riferito a  $V_{in} = 230$  V, carico 100%

| Article<br>Articolo                         | Code<br>Codice | P out<br>W | V out<br>DC | I out<br>DC        | Default<br>I out DC | U out<br>V | ta<br>°C  | tc<br>°C | $\lambda$ max.<br>Power<br>Factor | $\eta$ max.<br>Efficiency <sup>(1)</sup> |
|---------------------------------------------|----------------|------------|-------------|--------------------|---------------------|------------|-----------|----------|-----------------------------------|------------------------------------------|
| ASTRO 40W/350-1050<br>2PN <sup>(2)(3)</sup> | 145030         | 7...40     | 20...57     | 350...1050mA cost. | 700 mA              | 70         | -40...+55 | 85       | 0,95<br>Pout $\geq$ 24 W          | > 87 %                                   |
| ASTRO 80W/350-1050<br>2PN <sup>(4)</sup>    | 145031         | 12...80    | 35...115    | 350...1050mA cost. | 700 mA              | 140        | -40...+55 | 85       | 0,95<br>Pout $\geq$ 48 W          | > 93 %                                   |
| ASTRO 120W/350-1050<br>2PN <sup>(4)</sup>   | 145032         | 26...120   | 75...172    | 350...1050mA cost. | 700 mA              | 200        | -40...+55 | 85       | 0,95<br>Pout $\geq$ 72 W          | > 93 %                                   |
| ASTRO 165W/350-1050<br>2PN <sup>(4)</sup>   | 145033         | 36...165   | 105...236   | 350...1050mA cost. | 700 mA              | 260        | -40...+50 | 90       | 0,95<br>Pout $\geq$ 99 W          | > 93 %                                   |
| ASTRO 200W/350-1050<br>2PN <sup>(4)</sup>   | 145034         | 50...200   | 143...286   | 350...1050mA cost. | 700 mA              | 310        | -40...+50 | 90       | 0,95<br>Pout $\geq$ 120 W         | > 92 %                                   |

4.3

Street lighting and high power drivers - Full programmable  
Alimentatori per illuminazione stradale e alta potenza - Full programmable

**Rated Voltage**  
Tensione Nominale  
200 ÷ 240 V

**Frequency**  
Frequenza  
50-60 Hz

**AC Operation range**  
Tensione di utilizzo AC  
176 ÷ 264 V

**Power - Potenza**  
7 ÷ 200 W

**iTHD**  
 $\leq 10\%$  <sup>(1)</sup>

**Stand by power**  
 $\leq 0,5$  W

**Output current ripple**  
 $\leq 3\%$  <sup>(1)</sup>

**Standards compliance**

EN 55015  
EN 61000-3-2  
EN 61000-3-3  
EN 61347-1  
EN 61347-2-13  
EN 61547  
EN 62386-101  
EN 62386-102  
EN 62386-207

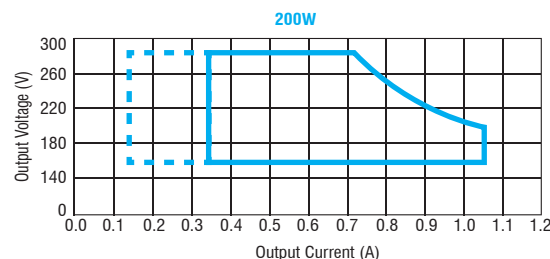
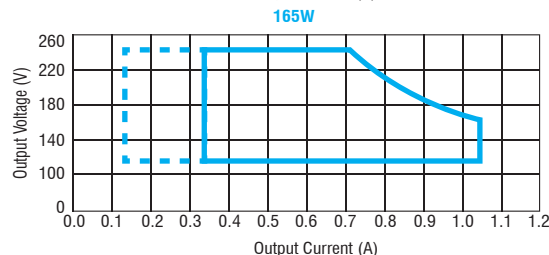
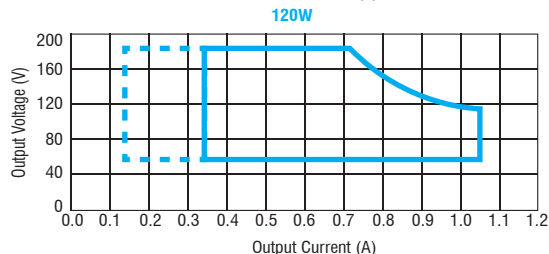
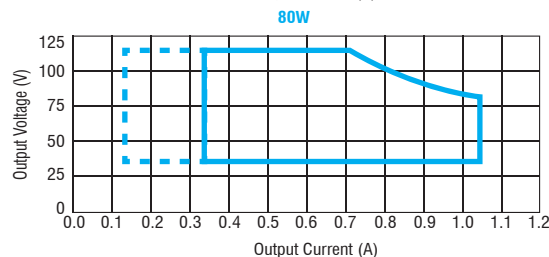
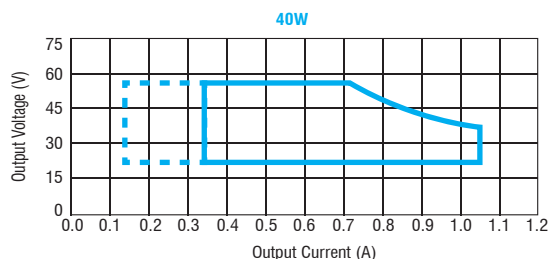
**Max. pcs for CB B16A**

(see page info17)

40W: 13pcs  
80W: 10pcs  
120W: 3pcs  
165W: 3pcs  
200W: 3pcs

**In rush current**

40W: 50A 328usec  
80W: 75A 904usec  
120W: 75A 250usec  
165W: 70A 892usec  
200W: 70A 396usec



— Programmed Range — — — Operating Window

#### Features

- Ultra high input spikes protection up to 10kV.
- Programmable multipower driver.
- Driver for built-in use.
- It can be used for lighting equipment in protection class I and II.
- Active Power Factor Corrector.
- Analogical input for thermal sensor connection.
- Current regulation  $\pm 3\%$  including temperature variations.
- Input and output terminal blocks on same side (wire cross-section 0,2...1,5 mm<sup>2</sup>).
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Thermal protection = C.5.a.

#### Caratteristiche

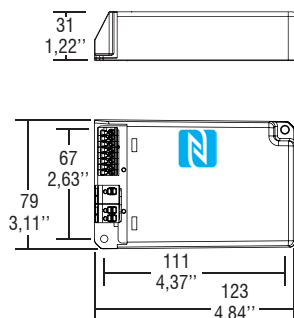
- Elevata protezione contro spike di rete fino a 10kV.
- Alimentatore multipotenza programmabile.
- Alimentatore da incorporare.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- PFC attivo.
- Entrata analogica per sensore termico.
- Corrente regolata  $\pm 3\%$  incluse variazioni di temperatura.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 0,2...1,5 mm<sup>2</sup>).
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Protezione termica = C.5.a.

## Direct current dimmable electronic drivers

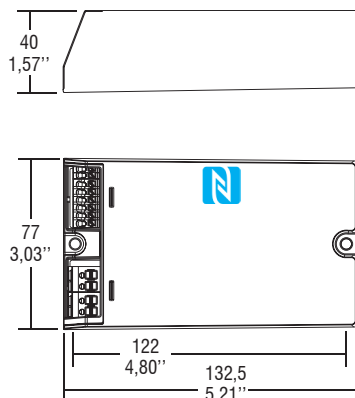
Alimentatori elettronici regolabili in corrente continua



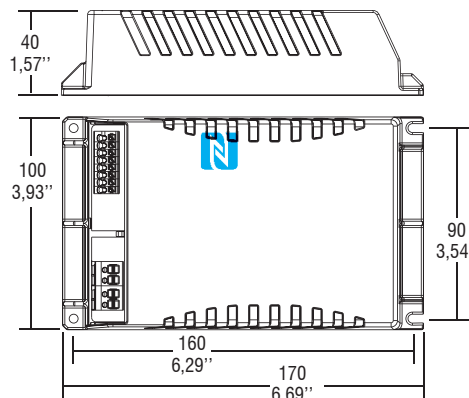
40W gr. 400 / 14,1 oz.



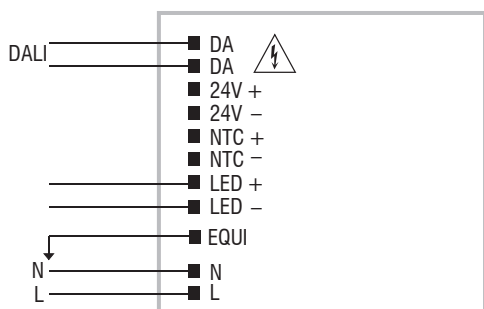
80W / 120W gr. 500 / 17,64 oz.



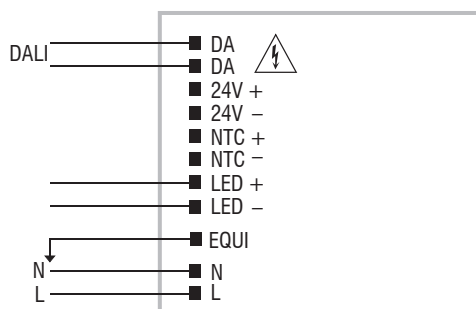
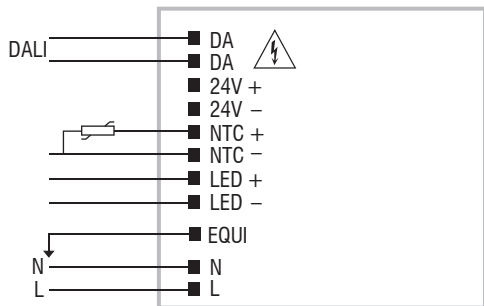
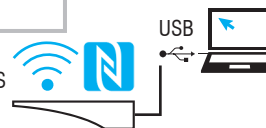
165W / 200W gr. 720 / 25,4 oz.



Wiring diagrams - Schemi di collegamento (Max. LED distance: 2m - Massima distanza LED: 2m)



DALI diagram - Collegamento DALI

WIRELESS PROGRAMMING diagram  
Collegamento per PROGRAMMAZIONE WIRELESS

NTC diagram - Collegamento NTC

| Article - Articolo                                                                                                                                                                                                    | Code - Codice |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| NFC-A PROGRAMMING TOOL<br>FEIG ISC.PR101                                                                                                                                                                              | 127095A       |
| NFC-B PROGRAMMING TOOL<br>FEIG CPR30-USB                                                                                                                                                                              | 127101        |
| LINK TO DOWNLOAD PROGRAMMING SOFTWARE<br>LINK PER SCARICARE SOFTWARE DI PROGRAMMAZIONE<br><a href="https://www.tci.it/TCI_tools/ASTROConfiguratorTool.zip">https://www.tci.it/TCI_tools/ASTROConfiguratorTool.zip</a> |               |

## Operation Mode

- 2PN devices allow the user to set different parameters.
- **WIRELESS PROGRAMMING** through **NFC** antenna.
- Compatible with standard DALI interfaces.
- The main available features are:
  - **DALI**: dimming through insulated port;
  - **MIDNIGHT**: automatic dimming according to programmed parameters;
  - **CLO**: Constant Light Output;
  - **CURRENT**: output current according to programmed parameters;
  - **NTC**: thermal protection and external NTC according to programmed parameters.
- Light regulation 10 - 100 % (minimum output current 105 mA).

For additional details for regulations see pages info12-14.

## Modalità di funzionamento

- I dispositivi **2PN** permettono all'utente di impostare diversi parametri.
- La **PROGRAMMAZIONE WIRELESS** avviene attraverso l'antenna **NFC**.
- Compatibilità con interfacce DALI standard.
- Le principali caratteristiche disponibili sono:
  - **DALI**: regolazione attraverso la porta isolata;
  - **MIDNIGHT**: regolazione automatica secondo i parametri programmati;
  - **CLO**: Constant Light Output;
  - **CORRENTE**: corrente di uscita secondo i parametri programmati;
  - **NTC**: protezione termica e NTC esterna secondo i parametri programmati.
- Regolazione della luminosità 10 - 100 % (corrente minima d'uscita 105 mA).

Per ulteriori dettagli sulle regolazioni vedi pagine info12-14.

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni