

# SIRIO SQ AD - 22 - 40 - 75 - 110 - 165

Direct current dimmable electronic drivers  
Alimentatori elettronici regolabili in corrente continua

Made in Europe



**Rated Voltage**  
Tensione Nominale  
220 ÷ 240 V

**Frequency**  
Frequenza  
47-63 Hz

**AC Operation range**  
Tensione di utilizzo AC  
202 ÷ 254 V

**DC Operation range**  
Tensione di utilizzo DC  
DC 186 ÷ 250 V  
DC 220 ÷ 240 V (6)

**Power - Potenza**  
3 ÷ 165 W

**iTHD**  
 $\leq 10\%$  (1)

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

**Output current ripple**  
 $\leq 4\%$  (1)  
 $\leq 6,5\%$  (7)

**Standards compliance**

- EN 55015
- EN62384
- EN 61000-3-2
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62386
- EN 62386-101
- EN 62386-102
- EN 62386-150
- EN 62386-207
- EN 62386-250
- EN 62386-251
- EN 62386-252
- EN 62386-253

**Max. pcs for CB B16A**

- 22W: 23 pcs
- 40W: 21 pcs
- 75W: 30 pcs
- 110W: 21 pcs
- 165W: 14 pcs

**In rush current**

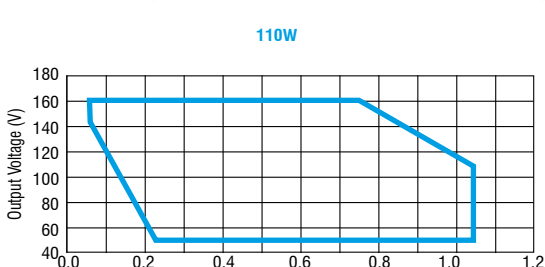
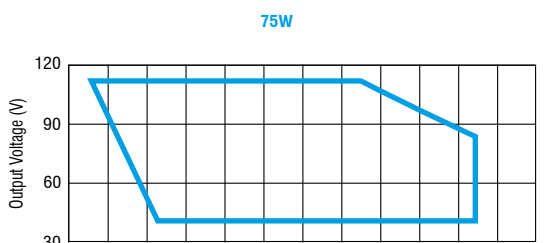
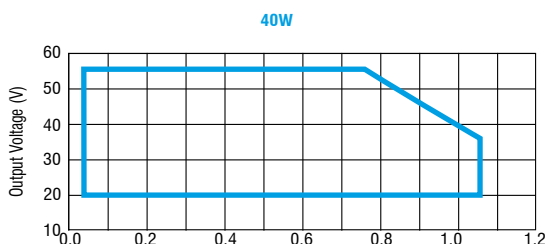
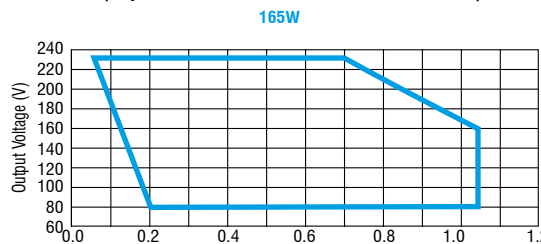
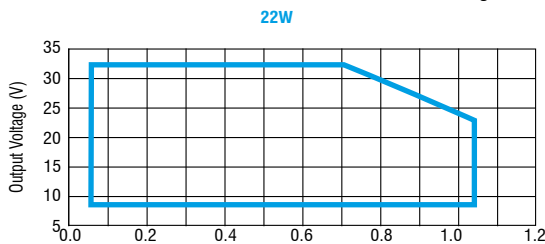
- 22W: 18A 320 $\mu$ sec
- 40W: 21A 300 $\mu$ sec
- 75W: 12A 100 $\mu$ sec
- 110W: 12A 100 $\mu$ sec
- 165W: 11,5A 100 $\mu$ sec

| 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 <sup>(8)</sup> | $\eta$ max.<br>Efficiency <sup>(1)</sup> |
|-------------------------------------|----------------|------------|-------------|--------------------|---------------------|------------|-----------|----------|--|--|
| SIRIO SQ 22W/300-1000 AD (2)(4)     | 145045         | 3...22     | 8...32      | 70...1050 mA cost. | 700                 | 50         | -40...+55 | 85       | 0,95   | 85 %                                     |
| SIRIO SQ 40W/300-1000 AD (3)(4)     | 145046         | 6...40     | 20...54     | 70...1050 mA cost. | 700                 | 90         | -40...+55 | 85       | 0,95   | 88 %                                     |
| SIRIO SQ 75W/300-1000 AD (5)        | 145047         | 10...75    | 35...108    | 70...1050 mA cost. | 700                 | 150        | -40...+55 | 90       | 0,95   | 92 %                                     |
| SIRIO SQ 110W/300-1000 AD (5)       | 145048         | 15...110   | 50...160    | 70...1050 mA cost. | 700                 | 200        | -40...+55 | 90       | 0,95   | 92,5 %                                   |
| SIRIO SQ 165W/300-1000 AD (5)(6)(7) | 145049         | 24...165   | 80...235    | 70...1050 mA cost. | 700                 | 280        | -40...+55 | 90       | 0,95   | 92,5 %                                   |

(1) Referred to  $V_m = 230$  V, 100% load - Riferito a  $V_m = 230$  V, carico 100%

Light output level in DC operation: Programmable 10-60% (factory default = 15% EOfi=0.13)

Livello di emissione luminosa in funzionamento DC: Programmabile 10-60% (impostazione di fabbrica = 15% EOfi=0.13)



## Features

- (8) Performance graphs (see datasheet).
- Compliant with Zhaga book 18.
- Auxiliary output 24 V max. 60 mA.
- 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  $\pm 5\%$  including temperature variations.
- Input and output terminal blocks on same side (wire cross-section 0,5...1,5 mm<sup>2</sup>).
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Thermal protection = C.5.a.

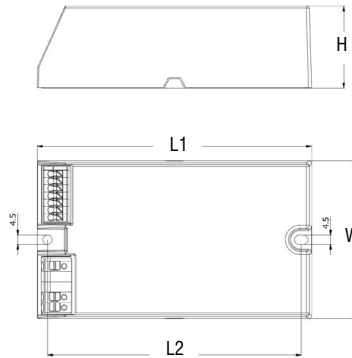
## Caratteristiche

- (8) Grafici di performance (vedi datasheet).
- Conforme con Zhaga book 18.
- Uscita ausiliare 24 V max. 60 mA.
- 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  $\pm 5\%$  incluse variazioni di temperatura.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 0,5...1,5 mm<sup>2</sup>).
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Protezione termica = C.5.a.

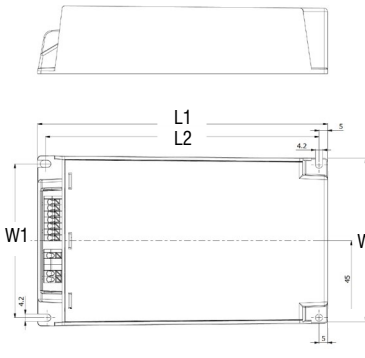
Street lighting and high power drivers - Full programmable  
Alimentatori per illuminazione stradale e alta potenza - Full programmabile



22W / 40W

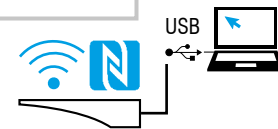
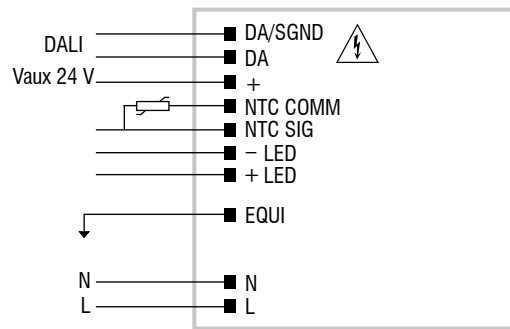
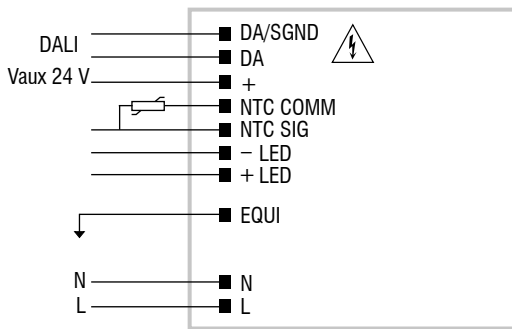


75W / 110W / 165W



| Article<br>Articolo | Dimensions - Dimensioni |       |     |    |    | Weight - Peso      |
|---------------------|-------------------------|-------|-----|----|----|--------------------|
|                     | L1                      | L2    | W   | W1 | H  |                    |
| 22W/40W             | 133                     | 122,5 | 77  | -  | 40 | gr. 220 / 7,8 oz.  |
| 75W                 | 150                     | 133,6 | 90  | 70 | 40 | gr. 294 / 10,4 oz. |
| 110W                | 150                     | 133,6 | 90  | 70 | 40 | gr. 772 / 27,3 oz. |
| 165W                | 171                     | 160   | 101 | 90 | 41 | gr. 960 / 33,8 oz. |

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



WIRELESS PROGRAMMING diagram  
Collegamento per PROGRAMMAZIONE WIRELESS

| Article - Articolo                        | Code - Codice |
|---|---------------|
| NFC-A PROGRAMMING TOOL<br>FEIG ISC.PRH101 | 127095A       |
| NFC-B PROGRAMMING TOOL<br>FEIG CPR30-USB  | 127101        |
| DALI-MO PROGRAMMING TOOL                  | 127105        |

[LINK TO DOWNLOAD PROGRAMMING SOFTWARE](#)  
[LINK PER SCARICARE SOFTWARE DI PROGRAMMAZIONE](#)

## Operation Mode

- **WIRELESS PROGRAMMING** through **NFC** antenna.
- The main available features are:
  - **MIDNIGHT**: automatic dimming according to programmed parameters;
  - **AMP DIM**: dimming according to mains voltage reduction;
  - **CURRENT**: output current according to programmed parameters;
  - **NTC**: thermal protection and external NTC according to programmed parameters;
  - **DC EMERGENCY**.
- Light regulation 10 - 100 %.
- Dimming method is linear.

## Modalità di funzionamento

- La **PROGRAMMAZIONE WIRELESS** avviene attraverso l'antenna **NFC**.
- Le principali caratteristiche disponibili sono:
  - **MIDNIGHT**: regolazione automatica secondo i parametri programmati;
  - **AMP DIM**: regolazione proporzionata alla riduzione della tensione di rete;
  - **CORRENTE**: corrente di uscita secondo i parametri programmati;
  - **NTC**: protezione termica e NTC esterna secondo i parametri programmati;
  - **DC EMERGENCY**.
- Regolazione della luminosità 10 - 100 %.
- La dimmerazione è di tipo lineare.

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