



**Software: TCI\_NFC\_READER**

<https://win.tcisaronno.com/public/CMS/Files/11436/Setup-NFC-DALI-1-0-0-155.zip>



## Product data

| Specification item | Value                    | Unit |
|--------------------|--------------------------|------|
| Product name       | ATON PRO 38/150-1050 NFC |      |
| Order code         | 127688                   |      |
| EAN (GTIN)         | 8010703874206            |      |
| Pieces per box     | 50                       |      |
| Product weight     | 110                      | Gr   |
| Made in            | Italy                    |      |

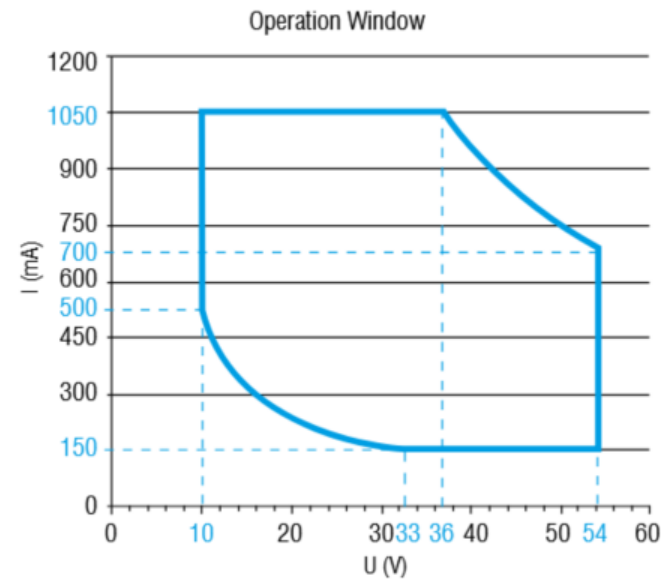
## Electrical input data

| Specification item        | Value     | Unit | Condition                             |
|---------------------------|-----------|------|---------------------------------------|
| Rated input voltage       | 220...240 | Vac  |                                       |
| Input voltage AC range    | 198...264 | Vac  |                                       |
| Input voltage DC range    | 176...275 | Vdc  | Factory default 100%<br>EOFi= 1       |
| Rated input frequency     | 50...60   | Hz   |                                       |
| Rated input current       | 0,186     | A    | Referred to Vin = 230 V,<br>100% load |
| Rated input power         | 42,50     | W    | Referred to Vin = 230V,<br>100% load  |
| Power factor              | 0,95      | λ    | Pout > 12 W                           |
| THD                       | < 10      | %    | Referred to Vin = 230 V,<br>100% load |
| Efficiency                | 90        | %    | Referred to Vin = 230 V,<br>100% load |
| Stand-by Power            | < 0,5     | W    |                                       |
| Isolation input to output | SELV      |      |                                       |

Electrical output data

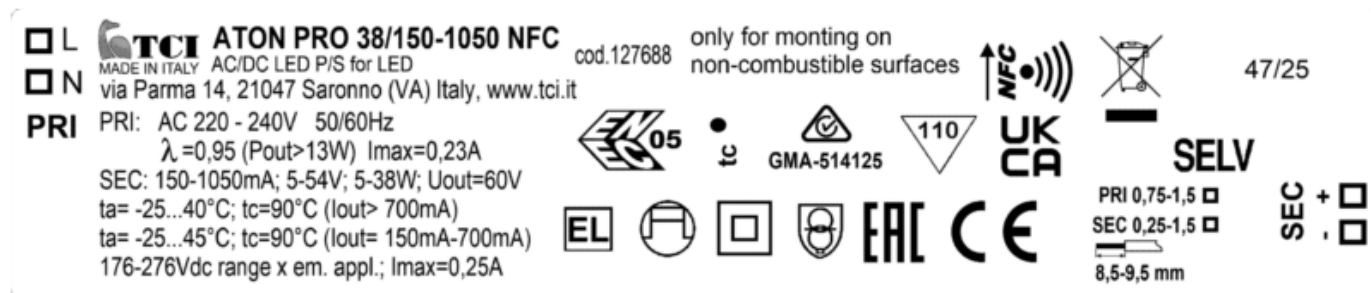
| Specification item              | Value            | Unit | Condition |
|---------------------------------|------------------|------|-----------|
| Regulation method               | Constant current |      |           |
| Output voltage                  | 10...54          | Vdc  |           |
| Output voltage max.             | 59               | V    | Open load |
| Output current                  | 300...1050       | mA   |           |
| Output current min programmable | 300              | mA   |           |
| Output current min dimming      | 7                | mA   |           |
| Output current tolerance        | 5                | %    |           |
| Output power                    | 3...38           | W    |           |
| Output current ripple           | < 3              | %    |           |
| Output Pst LM                   | < 1              |      |           |
| Output SVM                      | < 0,4            |      |           |

Operating window (230V)



## Label

Labels are for illustrative purposes only and may differ from the actual product



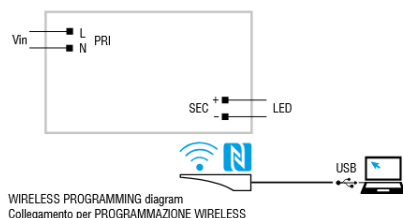
## Electrical data controls input

| Specification item | Value                | Unit | Condition |
|--------------------|----------------------|------|-----------|
| Control method     | DALI-2, Pulsante N/A |      |           |
| Dimming range      | 1...100              | %    |           |

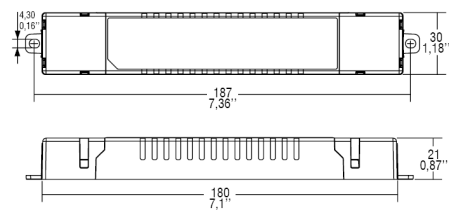
## Wiring and connections

| Specification item         | Value                | Unit                  | Condition                         |
|----------------------------|----------------------|-----------------------|-----------------------------------|
| Input wire cross section   | 0.75...1.5 / 18...15 | mm <sup>2</sup> / AWG |                                   |
| Input wire strip length    | 8.5...9.5            | mm                    |                                   |
| Output wires cross section | 0.5...1.5 / 20...15  | mm <sup>2</sup> / AWG |                                   |
| Output wire strip length   | 8...8.5              | mm                    |                                   |
| Control wire cross section | 0.75...1.5 / 18...15 | mm <sup>2</sup> / AWG |                                   |
| Control wire strip length  | 8.5...9.5            | mm                    |                                   |
| Max. cable length          |                      | cm                    | Max. LED distance see page info 8 |

## Wiring diagram



Dimensions



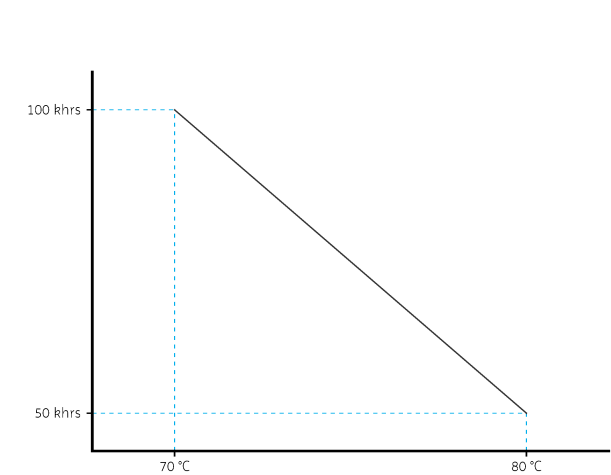
Insulation

| Specification item | Output               | Controls             | Earth |
|--------------------|----------------------|----------------------|-------|
| Input              | double or reinforced | basic                | N/A   |
| Output             | N/A                  | double or reinforced | N/A   |

Operation temperatures and humidity

| Specification item          | Value    | Unit | Condition                                |
|-----------------------------|----------|------|------------------------------------------|
| Ambient temperature         | -25...45 | °C   |                                          |
| Tc                          | 85       | °C   | Maximum temperature measured at Tc point |
| Maximum housing temperature | 110      | °C   | In case of failure                       |

Temperature/Life



Storage temperature and humidity

| Specification item  | Value    | Unit | Condition      |
|---------------------|----------|------|----------------|
| Ambient temperature | -30...85 | °C   |                |
| Relative humidity   | 5...85   | %    | Non condensing |

### Programmable features

| Specification item                  | Available  | Default setting | Condition |
|-------------------------------------|------------|-----------------|-----------|
| Set Adjustable Output Current (AOC) | DIP-SWITCH | 300mA           |           |
| Push Switch                         | Yes        | ON              |           |
| Min Dimming Level                   | Yes        | 1%              |           |
| DALI part 251                       | Yes        | OFF             |           |

### Features

| Specification item                          | Value      | Condition |
|---------------------------------------------|------------|-----------|
| Open load                                   | Yes        |           |
| Short circuit                               | Yes        |           |
| Over load and thermal protection            | Yes        | C.5.a     |
| Hot plug                                    | No         |           |
| Suitable for fixtures with protection class | class I/II |           |
| DALI part 101                               | Yes        |           |
| DALI part 102                               | Yes        |           |
| DALI part 207                               | Yes        |           |
| DALI part 252                               | Yes        |           |
| DALI part 253                               | Yes        |           |

### In rush current

| Specification item       | Value | Unit     | Condition |
|--------------------------|-------|----------|-----------|
| In rush current          | 5/50  | A / usec |           |
| Drivers / MCB 16A type B | 50    | pcs      |           |

### Driver touch current / protective conductor current

| Specification item                   | Value | Unit | Condition |
|--------------------------------------|-------|------|-----------|
| Typical Protective Conductor Current | 0,05  | mA   |           |

## Surge immunity

| Specification item                | Value | Unit | Condition |
|-----------------------------------|-------|------|-----------|
| Mains surge immunity (diff. mode) | 2     | kV   |           |
| Mains surge immunity (comm. mode) | 4     | kV   |           |

## Application info

| Specification item                     | Value                    |
|----------------------------------------|--------------------------|
| Approval marks                         | CE ENEC EAC RCM UKCA BIS |
| Ingress Protection classification (IP) | 20                       |
| Application                            | Compact dimmable indoor  |
| Mounting type                          | Independent              |
| Cut hole diameter                      | Ø54                      |

## Performance curves

