



### Features:

- . European AC input (180-264VAC).
- . Built-in active PFC function.
- . IP20.
- . Suitable for dry environment.
- . Protections: Short circuit / Over temperature / Over voltage.
- . Adopt plastic case and internal glue potting.
- . Built-in lightning protection device, can meet the difference mode 1kV.
- . Comply with the world lighting equipment safety standards.
- . 5 years warranty.

### Description:

The SNP200 series is an indoor constant voltage LED driver with an input voltage range of 180-264Vac, whose efficiency is up to 94%, it's working in the temperature range of - 20 ° C to + 45° C under free air convection. It has a high power factor, ultra-low total harmonic distortion, low standby power consumption, lightning protection and other comprehensive protection functions, which not only greatly improve the reliability of the product, but also guarantee the product life cycle. This series of products is designed for LED lighting and is used in indoor lighting applications. They are suitable for a wide range of applications in almost any environment where LED luminaires can be installed. Comply with the World Safety standard for lighting equipment and ensure the safety of the user and the luminaire system during installation.

### Model:

| Model         | Output voltage | Output current | Max. Output power | Output voltage precision | Total harmonic distortion (Typ.) | Power factor (Typ.) | Efficiency (Typ.) |
|---------------|----------------|----------------|-------------------|--------------------------|----------------------------------|---------------------|-------------------|
| SNP200-12VL-1 | 12V            | 0-15A          | 180W              | ±5%                      | 13%                              | 0.97                | 93%               |
| SNP200-24VL-1 | 24V            | 0-8.33A        | 200W              | ±5%                      | 13%                              | 0.97                | 94%               |

**Remark:** All the parameters are measured at 230VAC input, full load and 25 °C of ambient temperature if they are not specially mentioned.

## Indoor LED Power Supply

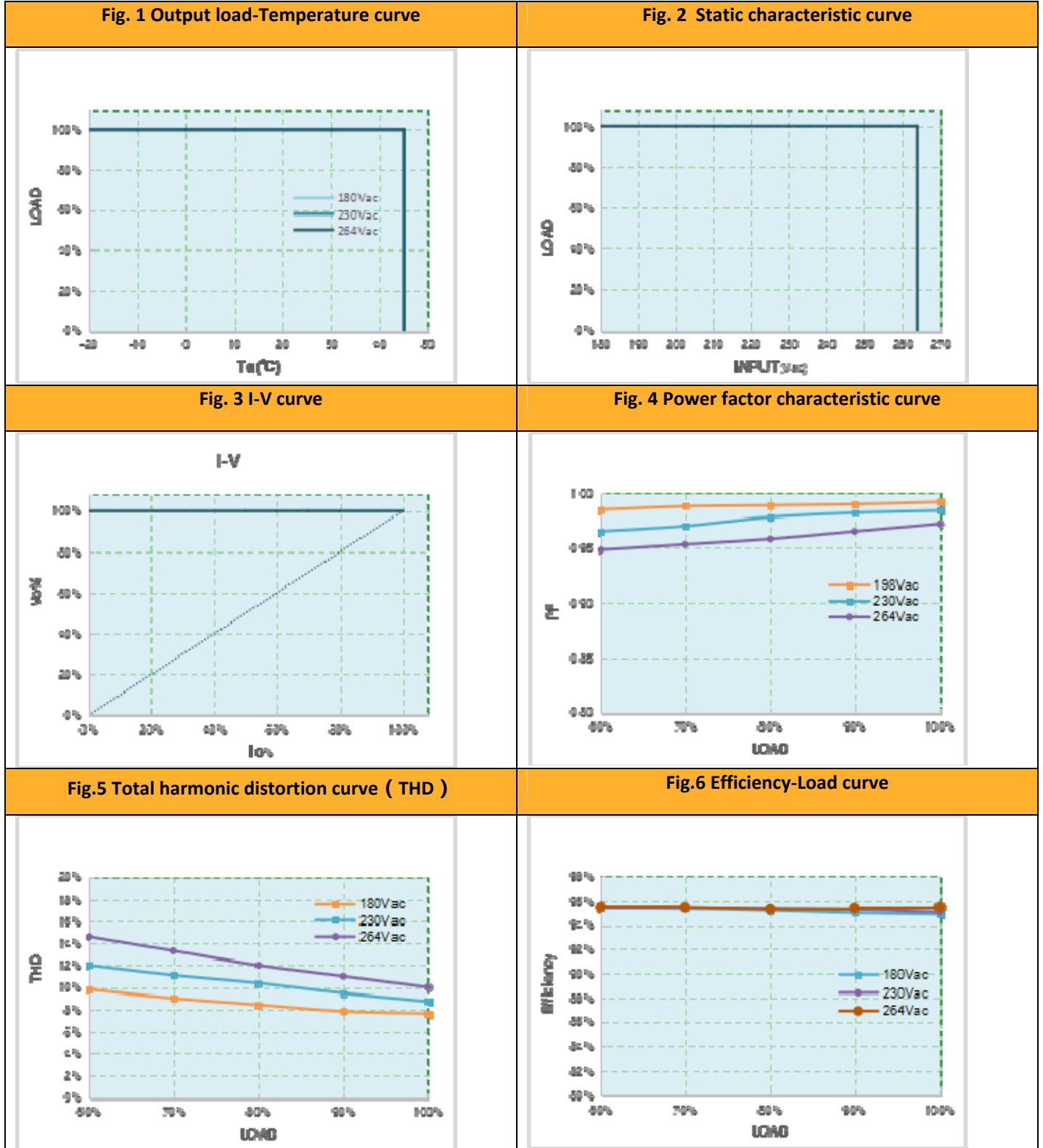
### Input:

| Parameter                  | Min. value | Typical value | Max. value | Note                              |
|----------------------------|------------|---------------|------------|-----------------------------------|
| Rated input voltage        | 200 Vac    |               | 240Vac     | Derating curve is shown in figure |
| Input voltage              | 180Vac     |               | 264Vac     |                                   |
| Input frequency            | 47Hz       |               | 63Hz       |                                   |
| Max. Input current         |            |               | 1.1A       |                                   |
| Input inrush current       |            |               | 90A        | 230Vac/50Hz, Cold Start           |
| Power factor               | 0.95       | 0.97          |            | 230Vac, Full Load                 |
| Total harmonic input       |            | 13%           | 15%        | 230Vac, Full Load                 |
| Leakage current            |            |               | 0.7mA      | 230Vac/50Hz, Full Load            |
| Stand-by power consumption |            | 0.4W          | 0.5W       | 230Vac/50Hz, No Load              |

### Output:

| Parameter                       | SNP200-12VL-1 | SNP200-24VL-1 | Note                                 |
|---------------------------------|---------------|---------------|--------------------------------------|
| Output voltage                  | 12.0VDC       | 24.0VDC       |                                      |
| Rated output current            | 15A           | 8.33A         |                                      |
| Output current                  | 0-15A         | 0-8.33A       |                                      |
| Rated output power              | 180W          | 200W          |                                      |
| Rated output efficiency         | 93%           | 94%           | 230Vac                               |
| Output voltage precision        | ±5%           |               |                                      |
| Output voltage ripple ( PK-PK ) | ±3%           |               | Full load (Test under 20M bandwidth) |
| Output current ripple ( PK-PK ) | ---           |               | Full load (Test under 20M bandwidth) |
| Rise time                       | 100mS         |               | 230Vac                               |
| Startup time                    | 300mS         |               | 230Vac                               |
| Line regulation                 | ±1%           |               | full load                            |
| Load regulation                 | ±1%           |               |                                      |

### Characteristic Curve:



### Protection:

| Parameter  |                  | Conditions                        | Note  |
|------------|------------------|-----------------------------------|---|
| Protection | Over load        | 1.1-1.6 times rated load          | Auto-recovery after overload removed.   |
|            | Short circuit    | Short circuit power $\leq$ 0.5W   | Hiccup mode, auto-recovery after short circuit removed.                             |
|            | Over voltage     | 1.5 times of rated output voltage | Turn off the input voltage and recover after restart.                               |
|            | Over temperature | 110 °C                            | Turn off the input voltage, the temperature can be restored after return to normal. |

### Environment Requirement:

| Parameter        | Min.            | Typ. | Max.  | Note      |
|------------------|-----------------|------|-------|-----------|
| Working temp.    | -20°C           | 25°C | +45°C | See Fig.1 |
| Storage temp.    | -40°C           | 25°C | +85°C |           |
| Working humidity | 10%RH           |      | 90%RH |           |
| Storage humidity | 5%RH            |      | 95%RH |           |
| IP grade         |                 |      | IP20  |           |
| Cooling mode     | Natural cooling |      |       |           |

**Remark:** All the parameters are measured at 25 °C of ambient temperature if they are not specially mentioned.

### Safety&EMC standard:

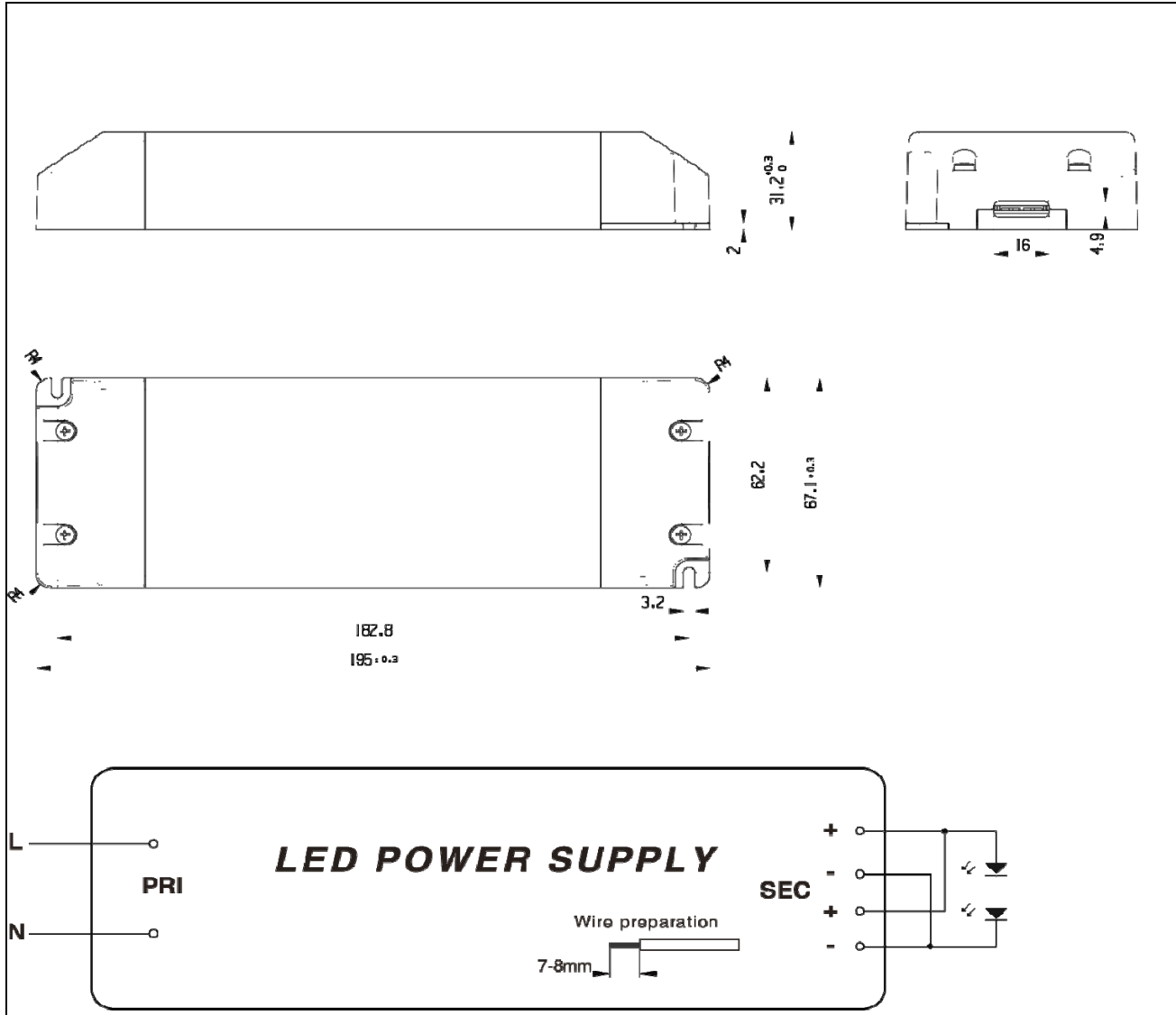
| Certificate                     |                     | Safety standards  | Certification                                     | Note |
|---------------------------------|---------------------|---|---|------|
| UL/CUL                          |                     | ---   |   |      |
| TUV                             |                     | EN61347-1:2015<br>EN 61347-2-13:2014+A1<br>EN62493:2015 | √   |      |
| SAA                             |                     | AS/NZS 61347.2.13                                       |   |      |
| CCC                             |                     | ---   |   |      |
| CE                              |                     | EN 61347-2-13:2014 +A1<br>EN61347-1:2015                | √   |      |
| Safety test                     |                     | Qualification   | Note  |      |
| Dielectric compressive strength | Input to output     | 3750Vac/5mA Max/60s                                     | Reinforced insulation,no breakdown,no flashover   |      |
|                                 | Primary to ground   | ---   | Basic insulation,no breakdown, no flashover       |      |
|                                 | Secondary to ground | ---   | Functional insulation, no breakdown, no flashover |      |
| Insulation resistance           | Input to output     | ≥10MΩ   | Test voltage : 500Vdc                             |      |
| Grounding resistance            |                     | ---   | 25A/1min  |      |
| Leakage current                 |                     | ≤0.75mA   | 264Vac  |      |
| EMI/EMS item                    |                     | Standard/Level  | Data  |      |
| Conduction CE                   |                     | EN55015   |   |      |
| Radiation RE                    |                     | EN55015   |   |      |
| Harmonics                       |                     | EN IEC 61000-3-2  | Class C   |      |

### Others:

| Parameters | Condition               | note  |
|------------|-------------------------|---|
| Lifetime   | 50,000 hours            | 230Vac,full load, case Temp. 75℃                        |
| MTBF       | 400,000 hours           | 230Vac,full load, environment Temp. 25℃ (MIL-HDBK-217F) |
| TC         | 85℃                     |   |
| Warranty   | 5 years                 |   |
| Weight     | 520 g                   |   |
| Dimensions | 195mm * 67.1mm * 31.2mm | L x W x H   |

## Indoor LED Power Supply

### Mechanical Specification ( Unit : mm )



**Remark :**

|                 |   |
|-----------------|---|
| AC input cable  | Terminal block,H05VVH2-F 2×1.0mm <sup>2</sup>     |
| DC output cable | Terminal block,H03VVH2-F 2×1.0 mm <sup>2</sup> *2 |