

**Data sheet | Item number: 787-622**

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; 2,50 mm<sup>2</sup>

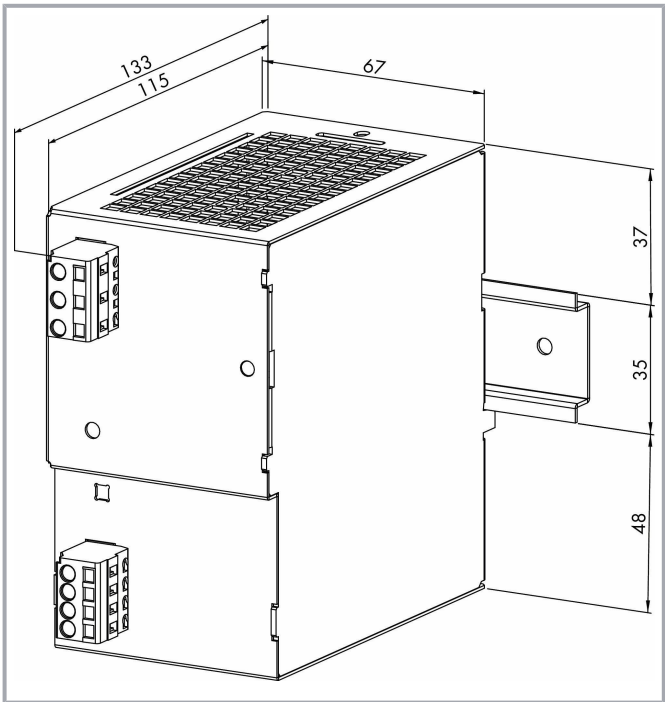
[www.wago.com/787-622](http://www.wago.com/787-622)



Subject to changes. Please also observe the further product documentation!

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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Item description

- Switched-mode power supply
- Suitable for protection class I equipment
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950

Data

Technical data

|                                    |                                        |
|------------------------------------|----------------------------------------|
| Phases                             | 1                                      |
| Nominal input voltage $U_{i\,nom}$ | 1 x AC 100 ... 240 V; DC 140 ... 300 V |
| Input voltage range                | AC 90 ... 264 V; DC 130 ... 300 V      |
| Nominal mains frequency range      | 50 ... 60 Hz; 0 Hz                     |
| Input current $I_i$                | $\leq 0.85\text{ A}$ (230 VAC)         |
| Discharge current                  | $\leq 0.55\text{ mA}$                  |
| Inrush current                     | $\leq 30\text{ A}$                     |
| Power factor correction (PFC)      | Passive                                |

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|                                    |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| Mains failure hold-up time         | $\geq 20$ ms (230 VAC)                                                 |
| Power loss $P_I$                   | $\leq 10$ W (230 VAC; no load)                                         |
| Power loss (max.) $P_{I(max.)}$    | 13 W (90 VAC / 24 VDC; 5 A)                                            |
| Efficiency (typ.)                  | 90 %                                                                   |
| Nominal output voltage $U_{o nom}$ | DC 24 V (SELV)                                                         |
| Output voltage range               | DC 22 ... 28.8 V (adjustable)                                          |
| Default setting                    | DC 24 V                                                                |
| Nominal output current $I_{o nom}$ | 5 A (24 VDC)                                                           |
| Control deviation                  | $\leq 2$ %                                                             |
| Residual ripple                    | $\leq 100$ mV (peak-to-peak)                                           |
| Current limitation                 | $1.1 \times I_{o nom}$ (typ.)                                          |
| Overload behavior                  | Constant current                                                       |
| Isolation voltage (Pri.-Sec.)      | DC 4.242 kV                                                            |
| Isolation voltage (Pri.-GND)       | DC 2.2 kV                                                              |
| Isolation voltage (Sec.-GND)       | DC 0.7 kV                                                              |
| Protection class                   | I                                                                      |
| Protection type                    | IP20 (per EN 60529)                                                    |
| Resistance to reverse feed         | $\leq$ DC 30 V                                                         |
| Pollution degree                   | 2                                                                      |
| Transient suppression (primary)    | Varistor                                                               |
| Overvoltage protection; secondary  | Internal protective circuit<br>$\leq 40$ VDC (in the event of a fault) |
| Short-circuit-protected            | Yes                                                                    |
| Open-circuit-proof                 | Yes                                                                    |
| Parallel operation                 | Yes                                                                    |
| Series operation                   | Yes                                                                    |
| Internal fuse                      | T 4 A / 250 VAC                                                        |
| Required backup fusing             | An external DC fuse is required for the DC input voltage.              |
| Recommended backup fusing          | Circuit breaker: C10 or B10                                            |
| Operation status indicator         | Green LED (24 V OK)                                                    |

## Connection data

|                       |                                              |
|-----------------------|----------------------------------------------|
| Connection type (1)   | Input/Output                                 |
| Connection technology | CAGE CLAMP®                                  |
| WAGO Connector        | WAGO 231 Series                              |
| Solid conductor       | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |

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|                                |                                              |
|--------------------------------|----------------------------------------------|
| Fine-stranded conductor        | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Strip length                   | 8 ... 9 mm / 0.31 ... 0.35 inch              |
| Note (conductor cross-section) | 12 AWG: THHN, THWN                           |

### Physical data

|                                    |                     |
|------------------------------------|---------------------|
| Width                              | 67 mm / 2.638 inch  |
| Height from upper-edge of DIN-rail | 133 mm / 5.236 inch |
| Depth from upper edge of DIN-rail  | 120 mm / 4.724 inch |

### Mechanical data

|               |             |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

### Material data

|           |        |
|-----------|--------|
| Fire load | 4.8 MJ |
| Weight    | 790 g  |

### Environmental requirements

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Surrounding air temperature (operation) | -10 ... 70 °C                             |
| Surrounding air temperature (storage)   | -25 ... 85 °C                             |
| Relative humidity                       | 30 ... 85 % (no condensation permissible) |
| Derating                                | -3 %/K (> 50 °C)                          |

### Standards and specifications

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Conformity marking       | CE                                                   |
| Standards/Specifications | EN 60950-1<br>EN 61204-3<br>UL 60950<br>UL 508<br>GL |

### Commercial data

|                       |                           |
|-----------------------|---------------------------|
| Product Group         | 6 (Interface Electronics) |
| PU (SPU)              | 1 Stück                   |
| Packaging type        | box                       |
| Country of origin     | DE                        |
| GTIN                  | 4045454435349             |
| Customs tariff number | 85044082900               |

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## Approvals / Certificates

### Ship Approvals

| Logo | Approval                                                | Additional Approval Text | Certificate name |
|------|---------------------------------------------------------|--------------------------|------------------|
|      | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA00002J6       |

### UL-Approvals

| Logo                                                                             | Approval                                    | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 508                   | E255817          |
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 60950-1               | E255815          |

## Downloads

### Documentation

#### Bid Text

|                         |              |                 |          |
|-------------------------|--------------|-----------------|----------|
| 787-622<br>docx - Datei | 2019. 6. 13. | docx<br>21.1 kB | Download |
| 787-622<br>X81 - Datei  | 2019. 6. 13. | xml<br>6.9 kB   | Download |

#### Instruction Leaflet

|                                                            |  |                 |          |
|------------------------------------------------------------|--|-----------------|----------|
| Primär getaktete Stromversorgungen CLASSIC<br>DC 24 V, 5 A |  | pdf<br>246.0 kB | Download |
|------------------------------------------------------------|--|-----------------|----------|

#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|----------------------------------------------------------|---------|-----------------|----------|

## CAD/CAE-Data

Subject to changes. Please also observe the further product documentation!

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#### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 787-622 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

#### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 787-622 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

|                        |                     |                          |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 787-622 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------|---------------------|--------------------------|

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 787-622 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

### Environmental Product Compliance

#### Compliance Search

|                                                                                                               |                     |                          |
|---------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Environmental Product Compliance 787-622                                                                      | <a href="#">URL</a> | <a href="#">Download</a> |
| Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; 2,50 mm <sup>2</sup> |                     |                          |

### Installation Notes

#### Product family

##### EPSITRON CLASSIC Power

EPSITRON® CLASSIC POWER: The Robust Power Supply – with Integrated TopBoost (Optional)

[Show all products from the family](#)

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