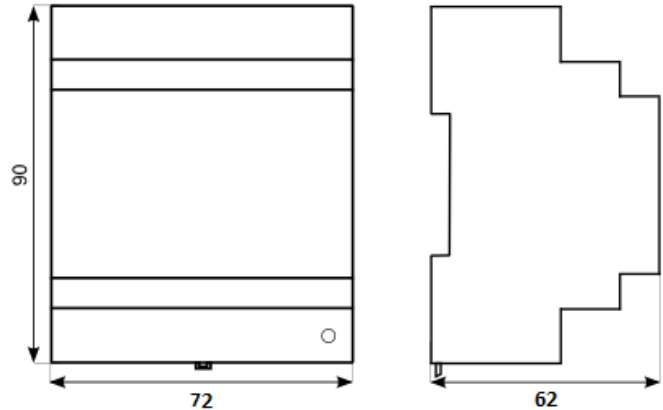


## JS-20-240/DIN3\_BUF



### DESCRIPTION

Switching AC/DC power supply for powering electronic devices with short-term output voltage backup (UPS function). The backup is provided by a supercapacitor. Output circuit type SELV. Indication of operation by LED and signaling by closing the open collector. DIN35 rail mount.

### TECHNICAL PARAMETERS

#### Input Data

|                     |                                  |
|---------------------|----------------------------------|
| Input voltage       | 230 V AC (180-265 V AC)          |
| Frequency of input  | 47-63 Hz                         |
| Input current, max. | 250 mA                           |
| Input fuse          | Yes (internal T 1 AH / 250 V AC) |

#### Output Data

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| Output voltage             | 24 V DC (+5/0 %) including line and load regulation                          |
| Output current             | 0,8 A max.                                                                   |
| Output power               | 20 W                                                                         |
| Backup time (UPS function) | >5 s (with output current 0,8 A and output voltage drop to 21,6 V) – graph 1 |
| Backup capacity            | 5 As (ampere seconds) at load 0,8 A                                          |
| Short-circuit protection   | Yes (auto resume)                                                            |
| Max. residual ripple       | <150 mV                                                                      |
| Overload                   | 1,25 A/60 s, 85 W/30 ms                                                      |

#### General Data

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Efficiency, max.               | approx. 86 %                                           |
| Max. power loss (nominal load) | approx. 4 W                                            |
| Impulse withstand              | 1 kV line to line, 2 kV line to case                   |
| Insulation                     | 3 kV between primary and secondary (double insulation) |
| Insulation resistance          | >50 MΩ                                                 |
| Cooling                        | natural (free air)                                     |
| IP code                        | IP20                                                   |
| Weight                         | 200 g                                                  |
| Material of enclosure          | NORYL                                                  |
| Dimensions                     | 90 x 72 x 62 mm                                        |
| Class of protection            | II.                                                    |



Pollution degree 2  
RoHS comply Yes

### Connection data

| Connection data            | Input                                | Output                               | Indication                           |
|----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Number of terminals        | 3 (N,GND,L)                          | 2 (-,+)                              | 2 (C,E)                              |
| Wire cross-section         |                                      |                                      |                                      |
| Solid min/max              | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG |
| Flexible min/max           | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG | 0,5/2,5 mm <sup>2</sup><br>20/13 AWG |
| Tightening torque, min/max | 0,5/0,6 Nm                           | 0,5/0,6 Nm                           | 0,5/0,6 Nm                           |

### Signal indication

Device working LED green and indication C,E – connected (open collector 35 V/10 mA max.)  
Readiness for backup LED yellow

### Environmental conditions

Operating temperature -20 °C to 55 °C (derating -2%/K from 40 to 55°C) – graph 2  
Overtemperature protection switch off (auto recovery)  
Relative humidity (non-condensing) 10 % to 80 % RH  
Installation altitude <3000 m above sea level

The power supply is designed for continuous operation, overvoltage category in installation 3 according to EN 61010-1 and is resistant to short-circuit at the output.

### TECHNICAL STANDARDS

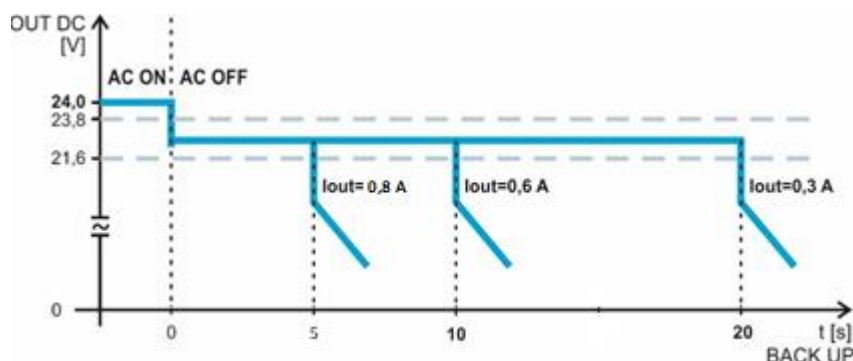
Safety EN 61204-7 ed.2  
EMC EN 61000-6-1 ed.2; EN 61000-6-3 ed.2  
Low voltage network connection VDE-AR-N 4105:2018-11

**Limited warranty 3 years**

### PACKING AND STORAGE

The product is supplied bulk packaged, user's guide for each piece is included.  
Storage temperature -25 to 70 °C, relative humidity < 90 % (not condensing). It is prohibited to expose the product to mechanical shocks and injurious gases.

**Backup time (1)**



**Derating curve (2)**

