

# COMPACT

## DECENTRALIZED INSTALLATION CONCEPTS

# EMPARRO67

## POWER SUPPLY DIRECTLY NEXT TO THE LOAD

Emparro67 power supply units are specially designed for applications outside the control cabinet. They withstand extreme environmental conditions and can be installed directly in the field, next to the loads.

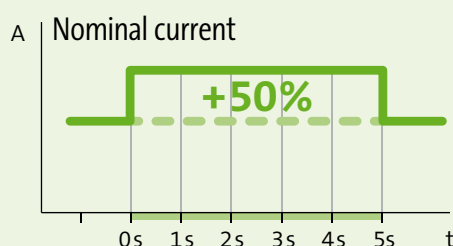
Power loss is reduced to a minimum, because the voltage is converted from 230 VAC to 24 VDC directly at the load. Therefore, the energy costs are reduced and smaller cabinets can be used.



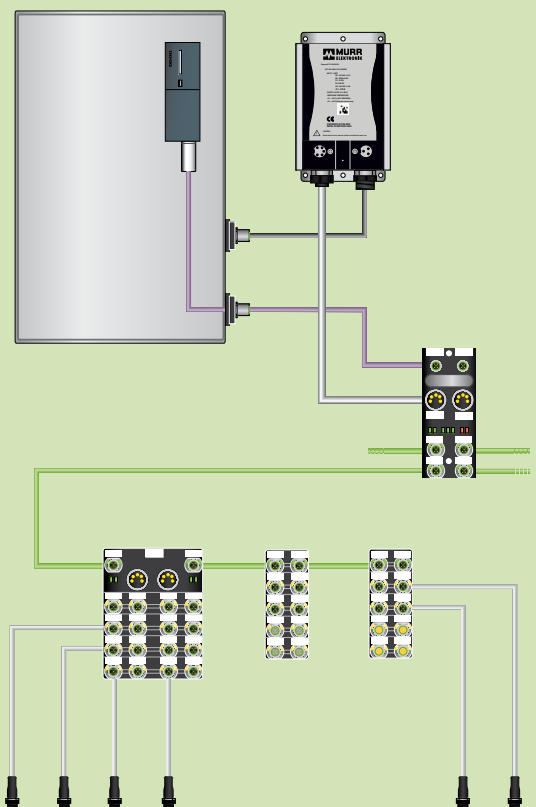
### DECENTRALIZED INSTALLATION

- Extremely rugged, fully potted housing (IP67)
- Very flat, compact design with LED
- High efficiency of up to 94.2%
- Ambient temperature up to 85 °C
- Active PFC
- Integrated input fuses
- MTBF up to 960,000

### POWER BOOST FUNCTION



### EMPARRO67 TOPOLOGY



Single phase,  
primary switched

– short circuit and  
overload protected  
(Power limiter)

– Power Boost 150 %

### Emparro67

96 W



### Emparro67

192 W



| Ordering Data             | Current   | Art. No.           | Current             | Art. No.           |
|---------------------------|---|--------------------|---------------------|--------------------|
|                           | 4 A   | 9000-11112-1962020 | 8 A                 | 9000-11112-2062020 |
| <b>Input</b>              |   |                    |                     |                    |
| Input voltage             | 90...265 V AC / V DC  |                    |                     |                    |
| Input current             | 0.5 A at 240 V AC   |                    | 0.9 A at 240 V AC   |                    |
| Inrush current after 1 ms | < 9 A   |                    | < 7 A               |                    |
| PFC                       | active  |                    |                     |                    |
| Connection                | 7/8" 3-pole, male   |                    |                     |                    |
| <b>Output</b>             |   |                    |                     |                    |
| Output voltage            | 24.1 V DC ± 2 %   |                    |                     |                    |
| Power Boost               | 150 % for 5 seconds   |                    |                     |                    |
| Efficiency                | up to 92.4 %  |                    | up to 94.2 %        |                    |
| Protection                | short-circuit and overload protected (output), Power Limiter                |                    |                     |                    |
| Connection                | 7/8" 5-pole, female   |                    |                     |                    |
| <b>General data</b>       |   |                    |                     |                    |
| Mains failure bridging    | > 45 ms at 230 V AC   |                    | > 35 ms at 230 V AC |                    |
| Standards                 | EN 60950-1, EN 61204-3, EN 55022, EN 61000-3-2                              |                    |                     |                    |
| MTBF                      | 960.000 h   |                    | 820.000 h           |                    |
| Temperature range         | –25...+60 °C (storage temperature –40...+85 °C) / with derating up to 85 °C |                    |                     |                    |
| Mounting method           | screw mounting  |                    |                     |                    |
| Dimensions (H x W x D)    | 140 x 109 x 51 mm   |                    | 175 x 109 x 51 mm   |                    |

## SUITABLE CONNECTORS

### INPUT SIDE

| Field-Wireable          | Description  | Art. No.           |
|-------------------------|--|--------------------|
|                         | 7/8" female, 3-pole, 0°, field-wireable, screw terminal, unshielded, 6–8 mm, 300 V / 12 A, UL approval | 7000-78191-0000000 |
|                         | 7/8" female, 3-pole 90°, field-wireable, screw terminal, unshielded, 6–8 mm, 300 V / 12 A, UL approval | 7000-78291-0000000 |
| Female open ended wires | Description  | Art. No.           |
|                         | 7/8" 3-pole, female straight with open ended wires, PUR  | 7700-A3021-UMByyyy |
|                         | 7/8" 3-pole, female 90° with open ended wires, PUR   | 7700-A3031-UMByyyy |
| Connection cable        | Description  | Art. No.           |
|                         | 7/8" 3-pole male straight to female straight, PUR  | 7700-A3A01-UMByyyy |
|                         | 7/8" 3-pole male 90° to female 90°, PUR  | 7700-A3A31-UMByyyy |

### OUTPUT SIDE

| Field-Wireable          | Description   | Art. No.           |
|-------------------------|---|--------------------|
|                         | 7/8" male, 5-pole, 0° field-wireable screw terminal, unshielded, 6–8 mm, 300 V / 9 A, UL approval   | 7000-78081-0000000 |
|                         | 7/8" male, 5-pole 90°, field-wireable, screw terminal, unshielded, 6–8 mm, 300 V / 9 A, UL approval | 7000-78141-0000000 |
| Female open ended wires | Description   | Art. No.           |
|                         | 7/8" 5-pole, female straight with open ended wires, PUR   | 7700-A5001-UMDyyyy |
|                         | 7/8" 5-pole, female 90° with open ended wires, PUR  | 7700-A5011-UMDyyyy |
| Connection cable        | Description   | Art. No.           |
|                         | 7/8" 5-pole male straight to female straight, PUR   | 7700-A5A01-UMDyyyy |
|                         | 7/8" 5-pole male 90° to female 90°, PUR   | 7700-A5A31-UMDyyyy |

Other cable types and lengths on request.

Length yyyy in cm: 0150 – 1,5 m  
0300 – 3,0 m  
0500 – 5,0 m