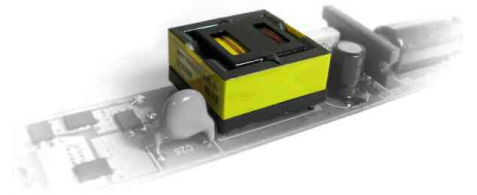


SRL series for SMPS without PFC - 18...42Vdc

- Transformers designed for best performances on high efficiency LLC resonant power supply without PFC pre-regulator stage
- Suited for converters based on any controller present in today's markets as shown in the Integrated resonant transformers introduction page
- Power supply efficiency up to 94% with simplest hardware solutions, without synchronous rectification
- Integrated resonant inductor and extremely compact size
- High creepage/clearance/DTI for reinforced insulation to meet EN61558, EN60950, etc.
- Usually on stock
- Custom versions on request



18...42Vdc - Tank table for SMPS without PFC

| Tank Reference | Converter Ratings | | | | | | Aux Pri ¹ (Vdc nom) | Aux Sec (Vdc nom) | Nominal Frequency | Layout (page 9) |
|----------------|-------------------|-------------|------------------------|------------------------------------|---------------|-------------------------------------|-----------------------------------|----------------------|-------------------|--------------------|
| | Output Voltage | Cont. Power | Max Power ² | Main AC Voltage Range ³ | | Input DC Voltage Range ⁴ | | | | |
| | | | | Open Jumper | Closed Jumper | | | | | |
| 024.018.200.01 | 18Vdc | 80W | 200W | 195-265Vac | 97-132Vac | 260..373Vdc | 14,8Vdc 30mA | N/A | 88KHz | Dwg 24A |
| 026.018.170.01 | 18Vdc | 135W | 170W | 195-265Vac | 97-132Vac | 260..373Vdc | 14,2Vdc 30mA | 14,2Vdc 30mA | 115KHz | Dwg 26B |
| 034.018.300.01 | 18Vdc | 175W | 300W | 195-265Vac | 97-132Vac | 230..373Vdc | 14,4Vdc 30mA | 14,4Vdc 30mA | 64KHz | Dwg 34A |
| 024.024.270.01 | 24Vdc | 60W | 270W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,9Vdc 30mA | N/A | 82KHz | Dwg 24A |
| 024.024.220.01 | 24Vdc | 75W | 220W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,9Vdc 30mA | N/A | 97KHz | Dwg 24A |
| 024.024.150.02 | 24Vdc | 100W | 150W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,9Vdc 30mA | N/A | 128KHz | Dwg 24A |
| 034.024.450.01 | 24Vdc | 110W | 450W | 195-265Vac | 97-132Vac | 230..373Vdc | 19,2Vdc 30mA | 19,2Vdc 30mA | 58KHz | Dwg 34A |
| 026.024.230.01 | 24Vdc | 150W | 230W | 195-265Vac | 97-132Vac | 260..373Vdc | 19Vdc 30mA | 19Vdc 30mA | 107KHz | Dwg 26B |
| 034.024.320.01 | 24Vdc | 210W | 320W | 195-265Vac | 97-132Vac | 240..373Vdc | 19,2Vdc 30mA | 19,2Vdc 30mA | 83KHz | Dwg 34A |
| 024.028.110.01 | 28,5Vdc | 90W | 110W | 195-265Vac | 97-132Vac | 260..373Vdc | 23,6Vdc 30mA | N/A | 139KHz | Dwg 24A |
| 026.029.160.01 | 29Vdc | 145W | 160W | 195-265Vac | 97-132Vac | 260..373Vdc | 23Vdc 30mA | 23Vdc 30mA | 116KHz | Dwg 26B |
| 034.029.280.01 | 29Vdc | 190W | 280W | 195-265Vac | 97-132Vac | 250..373Vdc | 23,2Vdc 30mA | 23,2Vdc 30mA | 86KHz | Dwg 34A |
| 024.036.220.01 | 36Vdc | 95W | 220W | 195-265Vac | 97-132Vac | 260..373Vdc | 14,5Vdc 30mA | N/A | 86KHz | Dwg 24A |
| 034.036.370.01 | 36Vdc | 200W | 370W | 195-265Vac | 97-132Vac | 225..373Vdc | 15,7Vdc 30mA | 15,7Vdc 30mA | 64KHz | Dwg 34A |
| 026.042.185.01 | 42Vdc | 165W | 185W | 195-265Vac | 97-132Vac | 260..373Vdc | 16,3Vdc 30mA | 16,3Vdc 30mA | 90KHz | Dwg 26B |

- All the transformers for these tanks are stocked for immediate delivery.
- Test reports for standard tanks are available upon request.
- Above ratings are referred to a typical context. Some parameters are interrelated, any change on one of them can affect the others. Test properly or contact us for customized simulation analysis.
- Customized tanks can be defined both on standard and custom transformers to fit different operating conditions, see notes on page 7.
- Windings temperature should not exceed 100°C continuous, 115°C for short times.

¹ The AuxPri voltage will raise with load increase.

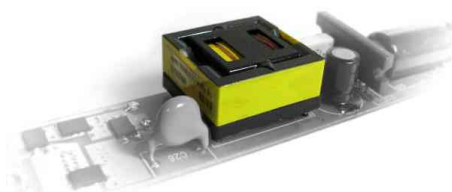
² Max available power on the whole input DC range, usable within the above mentioned winding temperature limits.

³ See schematic 3, page 7.

⁴ Ripple and hold-up time requirements considered.

^{nb} The necessary tests and verifications of compliance with the technical and safety standard requirements lie within the exclusive competence of the customer.

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- Power supply efficiency up to 94% with simplest hardware solutions, without synchronous rectification
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- High creepage/clearance/DTI for reinforced insulation to meet EN61558, EN60950, etc.
- Usually on stock
- Custom versions on request



48...110Vdc - Tank table for SMPS without PFC

| Tank Reference | Converter Ratings | | | | | | Aux Pri ¹ (Vdc nom) | Aux Sec (Vdc nom) | Nominal Frequency | Layout (page 9) |
|----------------|-------------------|-------------|------------------------|------------------------------------|---------------|-------------------------------------|-----------------------------------|----------------------|-------------------|--------------------|
| | Output Voltage | Cont. Power | Max Power ² | Main AC Voltage Range ³ | | Input DC Voltage Range ⁴ | | | | |
| | | | | Open Jumper | Closed Jumper | | | | | |
| 024.048.280.01 | 48Vdc | 70W | 280W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,5Vdc 30mA | N/A | 80KHz | Dwg 24A |
| 024.048.230.01 | 48Vdc | 90W | 230W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,5Vdc 30mA | N/A | 94KHz | Dwg 24A |
| 024.048.155.01 | 48Vdc | 110W | 155W | 195-265Vac | 97-132Vac | 260..373Vdc | 19,5Vdc 30mA | N/A | 124KHz | Dwg 24A |
| 034.048.560.01 | 48Vdc | 140W | 560W | 195-265Vac | 97-132Vac | 245..373Vdc | 21Vdc 30mA | 21Vdc 30mA | 65KHz | Dwg 34A |
| 026.048.230.01 | 48Vdc | 175W | 230W | 195-265Vac | 97-132Vac | 260..373Vdc | 18,7Vdc 30mA | 18,7Vdc 30mA | 102KHz | Dwg 26B |
| 034.048.360.01 | 48Vdc | 230W | 360W | 195-265Vac | 97-132Vac | 245..373Vdc | 21Vdc 30mA | 21Vdc 30mA | 94KHz | Dwg 34A |
| 024.056.130.01 | 56Vdc | 90W | 130W | 195-306Vac | 97-153Vac | 260..430Vdc | 22,8Vdc 30mA | N/A | 124KHz | Dwg 24A |
| 026.056.165.01 | 56Vdc | 160W | 165W | 195-265Vac | 97-132Vac | 260..373Vdc | 21,9Vdc 30mA | 21,9Vdc 30mA | 115KHz | Dwg 26B |
| 034.056.310.01 | 56Vdc | 210W | 310W | 195-265Vac | 97-132Vac | 240..373Vdc | 24,6Vdc 30mA | 24,6Vdc 30mA | 90KHz | Dwg 34A |
| 034.075.400.01 | 75Vdc | 220W | 400W | 195-265Vac | 97-132Vac | 235..373Vdc | 16,4Vdc 30mA | 16,4Vdc 30mA | 62KHz | Dwg 34A |
| 034.096.360.01 | 96Vdc | 230W | 360W | 195-265Vac | 97-132Vac | 230..373Vdc | 21Vdc 30mA | 21Vdc 30mA | 86KHz | Dwg 34A |
| 034.110.270.01 | 110Vdc | 190W | 270W | 195-265Vac | 97-132Vac | 235..373Vdc | 24,1Vdc 30mA | 24,1Vdc 30mA | 101KHz | Dwg 34A |

- All the transformers for these tanks are stocked for immediate delivery.

- Test reports for standard tanks are available upon request.

- Above ratings are referred to a typical context. Some parameters are interrelated, any change on one of them can affect the others. Test properly or contact us for customized simulation analysis.

- Customized tanks can be defined both on standard and custom transformers to fit different operating conditions, see notes on page 7.

- Windings temperature should not exceed 100°C continuous, 115°C for short times.

¹ The AuxPri voltage will raise with load increase.

² Max available power on the whole input DC range, usable within the above mentioned winding temperature limits.

³ See schematic 3, page 7.

⁴ Ripple and hold-up time requirements considered.

^{nb} The necessary tests and verifications of compliance with the technical and safety standard requirements lie within the exclusive competence of the customer.