

Orion-Tr DC-DC Converter, low-power

Non-isolated

EN



Orion-Tr 24/12-5 (60W)



Orion-Tr 24/12-10 (120W)

High efficiency

Thanks to synchronous rectification, efficiency at full load exceeds 95%.

IP43 protection

When installed with the screw terminals facing downward.

Screw terminals

No special tools required for installation.

| Non-isolated converters | Orion-Tr 24/12-5 | Orion-Tr 24/12-10 | Orion-Tr 24/12-15 | Orion-Tr 24/12-20 |
|---|---------------------------|-------------------------|---|-------------------------|
| Input voltage range | | | 18-35 V | |
| Output voltage | 12.7 V | 12.5 V | 12.5 V | 12.5 V |
| Efficiency | 95% | 97% | 97% | 97% |
| Continuous output current | 5 A | 10 A | 15 A | 20 A |
| Max. output current | 7 A | 12 A | 20 A | 25 A |
| Galvanic isolation | | | No | |
| No-load current | < 20 mA | < 45 mA | < 35 mA | < 35 mA |
| Operating temp. range (derate 3% per °C above 40°C) | | | -20 to +55°C | |
| DC connection | | | Screw terminals | |
| Max. cable cross-section | 3.3 mm ² AWG12 | 6 mm ² AWG10 | 6 mm ² AWG10 | 6 mm ² AWG10 |
| Weight kg (lb) | 0.09 (0.20) | 0.2 (0.44) | 0.25 (0.55) | 0.25 (0.55) |
| Dimensions h×w×d mm (h×w×d inch) | 53×51×27 (2.1×2×1.1) | 73×94×37 (2.9×3.7×1.5) | 73×94×45 (2.9×3.7×1.8) | 73×94×45 (2.9×3.7×1.8) |
| Standards: Safety Emission Immunity Automotive | | | EN 60950 EN 61000-6-3, EN 55014-1 EN 61000-6-2, EN 61000-6-1, EN 55014-2 ECE R10-4 | |