

DC-DC converter type DCC90-1

Technical Datas



- Output voltage adjustable:
-4% to +33% for DCC9012-1
-6% to +25% for DCC9024(48)-1
- Extra low safety potential
PELV (EN 50178) SELV (EN 60950)
- Overload- and open circuit protected
- Short circuit proof
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL, CSA

| Input data | |
|---|--|
| Min. input voltage DC | 18Volt |
| Max. input voltage DC | 40Volt |
| Max. input current | 8,0Amp. |
| Output data | |
| Output voltage $U_{Nominal}$ | see table below |
| Output current $I_{Nominal}$ | see table below |
| Current limiting | 1,5 x $I_{Nominal}$ |
| Residual ripple (10-500kHz) | < 200 mV |
| Control data | |
| Control deviation load | < 200mV with load variation 0...100% |
| Control deviation supply | < 10mV |
| Control time | < 1 msec. with load variation 10...90% |
| Operating data | |
| Duty circle | 100% |
| Operating temperature | -30°C to +70°C |
| Derating | from +40°C |
| Storage temperature range | -30°C...+105°C |
| Cooling | selfcooling |
| | recommended respective distances 15mm each |
| Safety devices | |
| Fuse recommended for input | 16,0 Amp. delayed |
| Output fuse | not necessary - cont. short-circuit proof |
| Overload protection | integrated into device |
| Hold-up time | 20 msec. typical |
| MTBF | > 380.000 h |
| Safety data | |
| Test voltage transformer | 5 kVAc in accordance to VDE 0551 |
| High-voltage resistance | Primary circuit - secondary circuit 2,5 kVAc acc. to VDE 0806 / IEC 380 |
| Degree of EMI suppression protection class | in acc. to VDE 0871 B and EN 55022/B class 1, with PE connection (EN 60950) |
| Ambient humidity | 95% rel. humidity, yearly average dewing allowed for use in tropical ambient |
| Protective class enclosure | IP 65 |
| Protective class terminals | IP 20 (VGB4) |
| Vibration proof | >30g at 33Hz in X, Y and Z, acc. to IEC 68 and DIN 41640 |
| Applied construction regulations | |
| according to VDE | VDE 0100, 0110, 0113, 0551, 0160/W2 |
| IEC | IEC 60950, IEC61000-6-3, IEC61000-6-2 |
| EN | EN60950, EN50081-1, EN50295, EN61000-6-3 EN61000-6-2, EN50178, EN55024, EN60204-1 |
| CSA / UL | CSA-C 22.2 / UL60950, UL508 |
| Mechanics | |
| Mounting | on rails acc. to DIN 46277 and with screws |

| Output voltage | 12,0Vdc | 24,0Vdc | 48,0Vdc |
|------------------------|-------------------|-------------------|-------------------|
| Type | DCC9012-1 | DCC9024-1 | DCC9048-1 |
| Output current | 8,0Amp. | 5,0Amp. | 2,5Amp. |
| Power | 96Watt | 120Watt | 120Watt |
| Efficiency | 86% | 88% | 89% |
| Dimensions (W x H x D) | 64x100x120 | 64x100x120 | 64x100x120 |
| Weight | approx. 1,25kg | approx. 1,25kg | approx. 1,25kg |
| Order-No. | 609012 | 609024 | 609048 |

