



MDCI & MDC Series



MDCI – DC/DC converter, switch-mode, isolated

| Model | MDCI 100 | MDCI 200 | MDCI 360 | MDCI 360 Charger |
|--|---------------|---------------|--------------------|------------------|
| Power (W) | 100 | 200 | 360 | 360 |
| Input variants (Vdc)* | A-B-C-D | A-B-C-D | A-B-C-D | A |
| Output variants (Vdc) ± 2% | 12.5 / 24.5 | 12.5 / 24.5 | 12.5 / 24.5 | 27.6 / 13 |
| Output current (A) | 8 / 4 | 16.5 / 8 | 30 / 15 | 13 |
| Galvanic isolation | • | • | • | • |
| Isolation voltage (V) | 400 | | | |
| Efficiency @ full load (%) | > 85 | | | |
| Off-load current (mA) | < 25 | | | |
| Operating temperature | -20 / +45°C | | | |
| Ambiant temp. (20°) increase after 30 min. @ full load | 25°C | 30°C | | |
| Cooling | Convection | Fan | | |
| Dimensions H/W/D [mm] | 49 / 88 / 152 | 49 / 88 / 182 | 83 / 132.8 / 190.5 | |
| Weight (gr) | 500 | 600 | 1400 | |

* A = 9-18 Vdc B = 20-35 Vdc C = 30-60 Vdc D = 60-120 Vdc

MDC –DC/DC converter, switch-mode, not-isolated

| Model | MDC 1224-7 | MDC 2412-5 | MDC 2412-8 | MDC 2412-12 | MDC 2412-20 | MDC 2412-30 |
|--|--------------|--------------|--------------|-------------|---------------|---------------|
| Power (W) | 170 | 65 | 105 | 160 | 275 | 415 |
| Output current (A) | 7 | 5.5 | 8 | 12 | 20 | 30 |
| Input (Vdc) | 9-18 | 18-35 | | 20-35 | | |
| Output (Vdc) | 24 | 13.2 | | 13.8 | | |
| Efficiency @ full load (%) | 90 | | | | | |
| Off-load current (mA) | < 15 | < 5 | | < 25 | | |
| Operating temperature | -20 / +40°C | | | | | |
| Ambiant temp. (20°) increase after 30 min. @ full load | 30°C | | 20°C | 30°C | 33°C | |
| Cooling | Convection | | | | Fan | |
| Dimensions H/W/D [mm] | 49 / 88 / 98 | 49 / 88 / 68 | 49 / 98 / 88 | | 49 / 88 / 126 | 49 / 88 / 151 |
| Weight (gr) | 300 | 170 | 250 | 260 | 480 | 600 |

| Common features MDCI & MDC | | |
|----------------------------|---|----------------------------------|
| Paralleling (only MDCI) | Max. 2 converters | |
| Humidity | Max. 95% non condensing | |
| Protection | Overload | Up to short-circuit |
| | Overheating | Output voltage reduction |
| | Overvoltage | Transient protection by Varistor |
| Reverse polarity | Fuse | |
| Casework | Anodized aluminium | |
| Connections | 6.3 mm Faston | |
| Warranty | 2 years | |
| Norms | EN 50081-1 (emission) EN 50082-1 (immunity) 95/54/EC (automotive directive) | |