



POWER SUPPLY

- 3AC 380-480V Wide-range Input
- Width only 110mm
- Efficiency up to 95.3%
- Excellent Partial Load Efficiency
- 150% (1440W) Peak Load Capability
- Easy Fuse Tripping due to High Overload Current
- Active Power Factor Correction (PFC)
- Active Filtering of Input Transients
- Minimal Inrush Current Surge
- Three Input Fuses Included
- Current Sharing Feature for Parallel Use
- Full Power Between -25°C and +60°C
- DC-OK Relay Contact
- Shut-down Input
- 3 Year Warranty

GENERAL DESCRIPTION

The most outstanding features of the DIMENSION Q-Series DIN-rail power supplies are the extremely high efficiencies and the small sizes, which are achieved by a synchronous rectification and other technological designs.

Large power reserves of 150% support the starting of heavy loads such as DC-motors or capacitive loads. In many cases this allows the use of a unit from a lower wattage class which saves space and money.

High immunity to transients and power surges as well as low electromagnetic emission makes usage in nearly every environment possible.

The integrated output power manager, the three input fuses and near zero input inrush current make installation and usage simple. Diagnostics are easy due to the DC-ok relay, a green DC-OK LED and the red overload LED.

A large international approval package for a variety of applications makes this unit suitable for nearly every application.

SHORT-FORM DATA

| | | |
|-------------------|----------------|-------------------|
| Output voltage | DC 48V | |
| Adjustment range | 48 - 54V | |
| Output current | 20 – 17.8A | continuous |
| | 30 – 26.7A | for typ. 4s |
| Output power | 960W | continuous |
| | 1440W | for typ. 4s |
| Output ripple | < 150mVpp | 20Hz to 20MHz |
| Input voltage | 3AC 380-480V | -15%/+20% |
| Mains frequency | 50-60Hz | ±6% |
| AC Input current | 1.65 / 1.35A | at 3x400 / 480Vac |
| Power factor | 0.88 / 0.90 | at 3x400 / 480Vac |
| AC Inrush current | typ. 4.5A peak | |
| Efficiency | 95.4 / 95.2% | at 3x400 / 480Vac |
| Losses | 46.3 / 48.4W | at 3x400 / 480Vac |
| Temperature range | -25°C to +70°C | operational |
| Derating | 24W/°C | +60 to +70°C |
| Hold-up time | typ. 25 / 25ms | at 3x400 / 480Vac |
| Dimensions | 110x124x127mm | WxHxD |

ORDER NUMBERS

| | | |
|--------------|-----------------|----------------------|
| Power Supply | QT40.481 | 48-54V Standard unit |
| Accessory | ZM2.WALL | Wall mount bracket |
| | UF20.481 | Buffer unit |

MARKINGS



Marine, pending



EMC, LVD