



POWER SUPPLY

- 3AC 380-480V Wide-range Input
- 2-Phase Operation also Possible
- Efficiency up to 95%
- Width only 65mm
- 150% Peak Load Capability
- Active Power Factor Correction PFC
- Active Input Transient Filter
- Full Power Between -25°C and +60°C
- Minimal Inrush Current
- DC-OK Relay Contact
- Quick-connect Spring Clamp Terminals
- 3 Year Warranty

1. GENERAL DESCRIPTION

The most outstanding features of this Dimension Q-Series DIN-rail power supply are the high efficiency and the small size, which are achieved by a synchronous rectification and further novel design details.

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 and virtually no input inrush current make installation and usage simple with no jumpers and switches necessary. Diagnostics are easy due to the dry DC-ok contact, a green DC-ok LED and red overload LED.

Unique quick-connect spring-clamp terminals allow a safe and fast installation and a large international approval package for a variety of applications makes this unit suitable for nearly every situation.

2. SHORT-FORM DATA

Output voltage	DC 24V	
Adjustment range	24-28V	
Output current	20A	Continuous, 24V
	30A	For typ. 4s, 24V
Output power	480W	Continuous, 24V
	720W	For typ. 4s, 24V
Output ripple	< 100mVpp	20Hz to 20MHz
Input voltage	AC 380-480V	±15%
Mains frequency	50-60Hz	±6%
AC Input current	0.79 / 0.65A	At 3x400 / 480Vac
Power factor	0.94 / 0.95	At 3x400 / 480Vac
AC Inrush current	typ. 3A peak	
Efficiency	95.0 / 94.8%	At 3x400 / 480Vac
Losses	25.3 / 26.4W	At 3x400 / 480Vac
Temperature range	-25°C to +70°C	Operational
Derating	12W/°C	+60 to +70°C
Hold-up time	typ. 22 / 22ms	At 3x400 / 480Vac
Dimensions	65x124x127mm	WxHxD

3. ORDER NUMBERS

Power Supply	QT20.241 QT20.241-C1	24-28V Standard unit Conformal coated unit
Accessory	ZM1.WALL ZM14.SIDE YR2.DIODE UF20.241	Wall mount bracket Side mount bracket Decoupling module Buffer unit

4. MARKINGS

