



POWER SUPPLY

- AC 100-240V Wide-range Input
- Efficiency up to 90%
- Width only 32mm
- 150% Peak Load Capability
- DC Input from 88 to 375Vdc
- Short-term Operation from 60Vac to 300Vac
- Full Power Between -25°C and +60°C
- 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 many novel design details. The Q-Series is part of the Dimension family, existing alongside the lower featured C-Series.

With short-term peak power capability of 150% and built-in large sized output capacitors, these features help start motors, charge capacitors and absorb reverse energy and often allow a unit of a lower wattage class to be used.

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, a wide range input voltage design and the low input inrush current make installation and usage simple.

Unique quick-connect spring-clamp terminals allow a safe and fast installation

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	3.4A	continuous, 24V
	5A	for typ. 4s, 24V
Output power	80W	continuous, 24V
	120W	for typ. 4s, 24V
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 100-240V	±15%
Mains frequency	50-60Hz	±6%
AC Input current	1.42 / 0.82A	at 120 / 230Vac
Power factor	0.53 / 0.47	at 120 / 230Vac
AC Inrush current	typ. 5 / 10A peak	at 120 / 230Vac
DC Input voltage	DC 110-300V	-20%/+25%
DC Input current	0.8 / 0.29A	at 110 / 300Vdc
Efficiency	88.7 / 90.0%	at 120 / 230Vac
Losses	10.4 / 9.1W	at 120 / 230Vac
Temperature range	-25°C to +70°C	operational
Derating	2W/°C	+60 to +70°C
Hold-up time	typ. 41 / 174ms	at 120 / 230Vac
Dimensions	32x124x102mm	WxHxD

3. ORDER NUMBERS

Power Supply	QS3.241	24-28V unit
Accessory	ZM1.WALL	Wall mount bracket
	ZM11.SIDE	Side mount bracket
	YR2.DIODE	Decoupling module
	UF20.241	Buffer unit

4. MARKINGS

