



POWER SUPPLY

- AC 100-240V Wide-range Input
- Efficiency up to 92.7%
- Width only 40mm
- 150% Peak Load Capability
- Active Power Factor Correction, PFC
- DC Input from 88 to 360Vdc
- Short-term Operation from 60Vac to 300Vac
- Full Power Between -25°C and +60°C
- Negligibly Low 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. 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 negligibly low input inrush current make installation and usage simple. 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	5A	continuous, 24V
	7.5A	for typ. 4s, 24V
Output power	120W	continuous, 24V
	180W	for typ. 4s, 24V
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 100-240V	+10/-15%
Mains frequency	50-60Hz	±6%
AC Input current	1.10 / 0.62A	at 120 / 230Vac
Power factor	0.99 / 0.91	at 120 / 230Vac
AC Inrush current	typ. 9 / 11A peak	at 120 / 230Vac
DC Input voltage	DC 110-300V	±20%
DC Input current	1.19 / 0.44A	at 110 / 300Vdc
Efficiency	91.6 / 92.7%	at 120 / 230Vac
Losses	11.0 / 9.4W	at 120 / 230Vac
Temperature range	-25°C to +70°C	operational
Derating	3W/°C	+60 to +70°C
Hold-up time	typ. 34 / 65ms	at 120 / 230Vac
Dimensions	40x124x117mm	WxHxD

3. ORDER NUMBERS

Power Supply	QS5.241	Standard unit
Accessory	ZM1.WALL	Wall mount bracket
	ZM12.SIDE	Side mount bracket
	YR2.DIODE	Decoupling module
	UF20.241	Buffer unit

4. MARKINGS

