



DeviceNet® POWER SUPPLY

- AC 100-240V Wide-range Input
- NEC Class 2 Compliant
- DeviceNet® Approved
- Efficiency up to 92%
- Width only 40mm
- Active Power Factor Correction, PFC
- 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 QS5.DNET power supply is a derivate of the Dimension QS5 family, which is specially designed to meet the DeviceNet® requirement. The QS5.DNET exists beside the QS10.DNET, which is the right choice to supply networks with the thick cable.

The specialties of DeviceNet® power supplies are:

- The nominal and overload currents are sized for the ratings of the DeviceNet® cables.
- Large load capacitors can be charged in a very short period of time.
- After turn on, the output voltage increases according to the DeviceNet® timing specification.
- The upper level of the output level is limited to protect the network.

The most outstanding features are a high efficiency, compact size, wide-range input voltage, a very low inrush surge and a DC-ok contact. High immunity to transients and power surges and a low electromagnetic emission makes usage in nearly every environment possible.

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

2. SHORT-FORM DATA

Output voltage	DC 24V	
Adjustment range	fixed	not adjustable
Output current	3.8A	
Output power	91.2W	continuous, 24V
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 100-240V	+10/-15%
Mains frequency	50-60Hz	±6%
AC Input current	0.85 / 0.48A	at 120 / 230Vac
Power factor	0.98 / 0.90	at 120 / 230Vac
AC Inrush current	typ. 9 / 11A peak	at 120 / 230Vac
DC Input voltage	DC 110-300V	±20%
DC Input current	0.91 / 0.33A	at 110 / 300Vdc
Efficiency	91.4 / 92.0%	at 120 / 230Vac
Losses	8.6 / 7.9W	at 120 / 230Vac
Temperature range	-25°C to +70°C	operational
Derating	2W/°C	+60 to +70°C
Hold-up time	typ. 44 / 85ms	at 120 / 230Vac
Dimensions	40x124x117mm	WxHxD

3. ORDER NUMBERS

Power Supply	QS5.DNET	Standard unit
Accessory	ZM1.WALL ZM12.SIDE UF20.241	Wall mount bracket Side mount bracket Buffer unit

4. MARKINGS

