



### POWER SUPPLY

- AC 100-240V Wide-range Input
- NEC Class 1 Compliant
- DeviceNet® Approved
- Efficiency up to 92.7%
- Width only 60mm
- 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 QS10.DNET power supply is a derivate of the Dimension QS10 family, which is specially designed to meet the DeviceNet® requirement. The QS10.DNET exists beside the QS5.DNET, which is the right choice to supply networks that use NEC Class 2 cables.

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	24-24.5V	
Output current	8A	
Output power	192W	
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	AC 100-240V	±15%
Mains frequency	50-60Hz	±6%
AC Input current	1.77 / 1.0A	at 120 / 230Vac
Power factor	0.98 / 0.92	at 120 / 230Vac
AC Inrush current	typ. 4 / 7A peak	at 120 / 230Vac
DC Input voltage	DC 110-300V	-20%/+25%
DC Input current	1.9 / 0.7A	at 110 / 300Vdc
Efficiency	92.3 / 92.7%	at 120 / 230Vac
Losses	16.0 / 15.1W	at 120 / 230Vac
Temperature range	-25°C to +70°C	operational
Derating	5W/°C	+60 to +70°C
Hold-up time	typ. 33 / 34ms	at 120 / 230Vac
Dimensions	60x124x117mm	WxHxD

## 3. ORDER NUMBERS

Power Supply	<b>QS10.DNET</b>	Standard unit
Accessory	ZM1.WALL	Wall mount bracket
	ZM13.SIDE	Side mount bracket
	YR2.DIODE	Decoupling module
	UF20.241	Buffer unit

## 4. MARKINGS

