



### SEMI-REGULATED POWER SUPPLY

- Alternative or Replacement for AC Transformer
- Three Phase Input – DC Output
- DIN-Rail Mountable
- Width only 96mm
- 95.5% Efficiency
- 125% Peak Power Capability
- No Input Inrush Current
- Active Input Transient Blocker
- Full Power Between -25°C and +60°C
- Easy Failure Diagnostics
- No Electrolytic Capacitors on Input Side
- Cost Effective and Robust
- 3 Year Warranty

## 1. GENERAL DESCRIPTION

The power supplies in the Dimension X-Series include a new and innovative concept for generating an isolated DC voltage from a three-phase mains system.

A semi-regulated resonant converter enables a very compact design, maximum efficiency and extremely competitive pricing with only a small compromise in the output voltage regulation, output ripple and hold-up time.

Weighing just 1.4 kg, the device provides 960 watts of continuous output power and an additional 25% power reserve for dynamic loads. The light-weight design along with compact dimensions facilitate straightforward mounting on DIN-rail.

Primary use are applications involving supplies to motors, valves and other load circuits with a high power consumption, where an accurate output voltage regulation which is standard on traditional switched-mode power supplies is not required. Furthermore, these switched-mode power supplies can often replace mains transformers with rectifiers.

## 2. SHORT-FORM DATA

Output voltage	DC 24V	Factory setting to 24.1V
Adjustment range	none	
Output current	40A 50A	continuous for typ. 15s
Output power	960W 1200W	continuous for typ. 15s
Output ripple	< 1500mVpp < 200mVpp	20Hz-2kHz 2kHz to 20MHz
Input voltage	3AC 400V 3AC 480V	XT40.241 XT40.242
Mains frequency	50-60Hz	±6%
AC Input current	1.65A / phase 1.4A / phase	XT40.241, 3x400V XT40.242, 3x480V
Power factor	0.93	24V, 40A
AC Inrush current	typ. 2A peak	
Efficiency	95.5%	
Losses	45.2W	
Temperature range	-25°C to +70°C	operational
Derating	24W/°C	+60 to +70°C
Dimensions	96x124x159mm	WxHxD

## 3. ORDER NUMBERS

Power Supply	<b>XT40.241</b>	400V Input
	<b>XT40.242</b>	480V Input
Accessory	UF20.241	24V Buffer Unit
	SLR01	Redundancy Module

## 4. MARKINGS

